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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 31	Nov 18	DKILIT has been renamed APOLLIT
NEWS 32	Nov 25	More calculated properties added to REGISTRY
NEWS 33	Dec 02	TIBKAT will be removed from STN
NEWS 34	Dec 04	CSA files on STN
NEWS 35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36	Dec 17	TOXCENTER enhanced with additional content
NEWS 37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 38	Dec 30	ISMEC no longer available
NEWS 39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS 41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS 42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 43	Feb 13	CANCERLIT is no longer being updated
NEWS 44	Feb 24	METADEX enhancements
NEWS 45	Feb 24	PCTGEN now available on STN
NEWS 46	Feb 24	TEMA now available on STN
NEWS 47	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 48	Feb 26	PCTFULL now contains images
NEWS 49	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results

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 NEWS 50  Mar 19  APOLLIT offering free connect time in April 2003
 NEWS 51  Mar 20  EVENTLINE will be removed from STN

 NEWS EXPRESS  January 6 CURRENT WINDOWS VERSION IS V6.01a,
               CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 19:26:48 ON 22 MAR 2003

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 19:26:52 ON 22 MAR 2003
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STRUCTURE FILE UPDATES:   21 MAR 2003  HIGHEST RN 500256-84-8
DICTIONARY FILE UPDATES:  21 MAR 2003  HIGHEST RN 500256-84-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09734625.str

L1      STRUCTURE UPLOADED

=> d query
L1              STR
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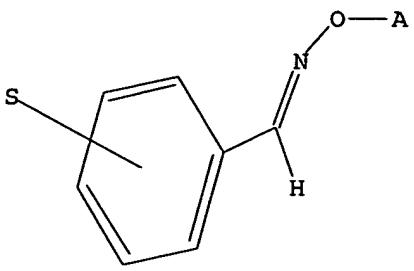

Structure attributes must be viewed using STN Express query preparation.

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=> s l1
SAMPLE SEARCH INITIATED 19:29:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   1991 TO ITERATE

 50.2% PROCESSED    1000 ITERATIONS                                  5 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        37144 TO    42496
PROJECTED ANSWERS:              10 TO      388

L2             5 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 19:29:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  39765 TO ITERATE

100.0% PROCESSED   39765 ITERATIONS                             244 ANSWERS
SEARCH TIME: 00.00.01

L3           244 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              149.35     149.56

FILE 'CAPLUS' ENTERED AT 19:29:31 ON 22 MAR 2003
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FILE COVERS 1907 - 22 Mar 2003  VOL 138 ISS 13
FILE LAST UPDATED: 21 Mar 2003  (20030321/ED)

  This file contains CAS Registry Numbers for easy and accurate
```

substance identification.

```
=> s l3
L4          33 L3

=> d l4 1-33 abs ibib hitstr
```

L4 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB In general, the present invention expands upon the general tethering approach described above and provides novel compds. and libraries of compds. for use in this approach. Specifically, the novel compds. and libraries described herein provide powerful tools for the development of drug leads, and are useful for the identification of fragments that bind weakly, or with moderate binding affinity, to a biol. target site of interest. A structure-activity relation (SAR) can be developed using information from a tethering expt. in much the same way SAR is developed using traditional assays. For example, ligand candidates were strongly selected against the E. coli thymidylate synthase (TS).

ACCESSION NUMBER: 2003:42906 CAPLUS
DOCUMENT NUMBER: 138:100900
TITLE: Novel ligands and libraries of ligands
INVENTOR(S): Braisted, Andrew C.; Erlanson, Daniel A.; Jacobs, Jeffrey W.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 73 pp., Cont.-in-part of U. S. Ser. No. 121,216.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003013125	A1	20030116	US 2002-143455	20020510
US 6335155	B1	20020101	US 1998-105372	19980626
US 2002022233	A1	20020221	US 2001-981547	20011017
US 2002150947	A1	20021017	US 2001-990421	20011121
US 2002081621	A1	20020627	US 2002-82046	20020220
US 2002155505	A1	20021024	US 2002-121216	20020410

PRIORITY APPLN. INFO.:
US 1998-105372 A3 19980626
US 2000-252294P P 20001121
US 2001-981547 A2 20011017
US 2001-990421 A3 20011121
US 2002-121216 A2 20020410
US 2001-310725P P 20010807
US 2002-43833 A1 20020111

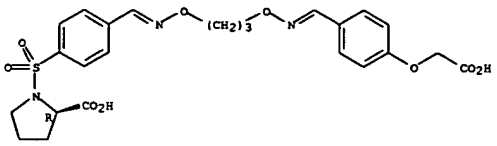
OTHER SOURCE(S): MARPAT 138:100900

IT **485800-11-1 485800-12-2**
RL: PAC (Pharmacological activity); BIOL (Biological study)
(thymidylate synthase inhibition by; novel ligands and libraries of ligands for the development of drug leads and structure-activity relations)

RN 485800-11-1 CAPLUS
CN D-Proline, 1-[[4-[9-[4-(carboxymethoxy)phenyl]-3,7-dioxa-2,8-diazanona-1,8-dien-1-yl]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

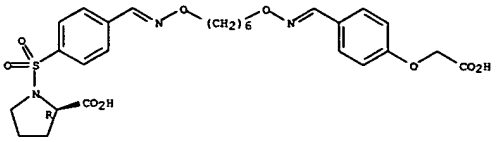
Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 485800-12-2 CAPLUS
CN D-Proline, 1-[[4-[12-[4-(carboxymethoxy)phenyl]-3,10-dioxa-2,11-diazadodeca-1,11-dien-1-yl]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) (R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

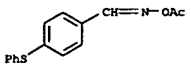
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2802528	A1	20010622	FR 2000-16306	20001214
NL 1016815	A1	20010618	NL 2000-1016815	20001206
NL 1016815	C2	20020514		
GB 2358017	A1	20010711	GB 2000-29793	20001207
GB 2358017	B2	20020313		
SE 2000004564	A	20020612	SE 2000-4564	20001211
US 2001012596	A1	20010809	US 2000-734625	20001212
JP 2001233842	A2	20010828	JP 2000-377671	20001212
FI 2000002730	A	20010616	FI 2000-2730	20001213
DE 10061947	A1	20010621	DE 2000-10061947	20001213
ES 2177438	A1	20021201	ES 2000-2977	20001213
DK 200001878	A5	20010616	DK 2000-1878	20001214
BE 1013872	A5	20021105	BE 2000-789	20001214
CN 1299812	A	20010620	CN 2000-135980	20001215
BR 2000006379	A	20010724	BR 2000-6379	20001215

PRIORITY APPLN. INFO.:
EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

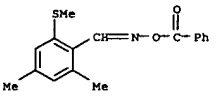
IT **362624-48-4P 362624-51-9P 362624-59-7P**
362624-60-0P 362624-61-1P 362624-62-2P
362624-63-3P 362624-64-4P 362624-65-5P
362624-66-6P 362624-67-7P 362624-68-8P
362624-73-5P 362624-84-8P 362624-85-9P
362624-87-1P 362624-88-2P 362624-89-3P
362624-94-0P 362624-96-2P 362625-00-1P
362625-01-2P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-48-4 CAPLUS
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

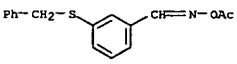


L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

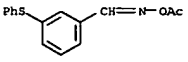
RN 362624-51-9 CAPLUS
CN Benzaldehyde, 2,4-dimethyl-6-(methylthio)-, O-benzoyloxime (9CI) (CA INDEX NAME)



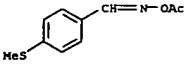
RN 362624-59-7 CAPLUS
CN Benzaldehyde, 3-[(phenylmethyl)thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



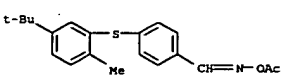
RN 362624-60-0 CAPLUS
CN Benzaldehyde, 3-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-61-1 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

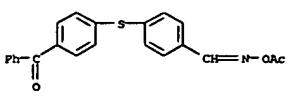


RN 362624-62-2 CAPLUS
CN Benzaldehyde, 4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

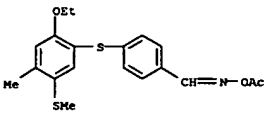


RN 362624-63-3 CAPLUS
CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime) (9CI) (CA

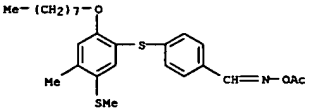
L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)



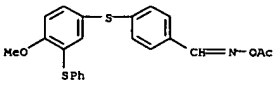
RN 362624-64-4 CAPLUS
CN Benzaldehyde, 4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-65-5 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

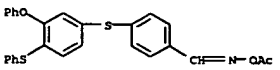


RN 362624-66-6 CAPLUS
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

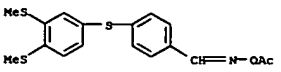


RN 362624-67-7 CAPLUS
CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

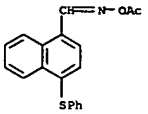
L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



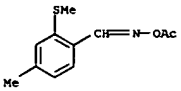
RN 362624-68-8 CAPLUS
CN Benzaldehyde, 4-[[3,4-bis(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



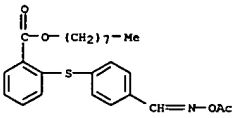
RN 362624-73-5 CAPLUS
CN 1-Naphthalenecarboxaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-84-8 CAPLUS
CN Benzaldehyde, 4-methyl-2-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

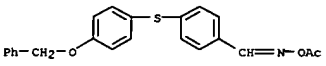


RN 362624-85-9 CAPLUS
CN Benzoic acid, 2-[[4-[[(acetyloxy)imino]methyl]phenyl]thio]-, octyl ester (9CI) (CA INDEX NAME)

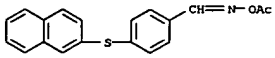


L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

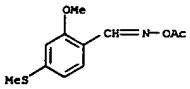
RN 362624-87-1 CAPLUS
CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-, O-acetyloxime (9CI) (CA
INDEX NAME)



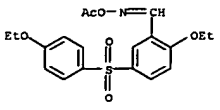
RN 362624-88-2 CAPLUS
CN Benzaldehyde, 4-(2-naphthalenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-89-3 CAPLUS
CN Benzaldehyde, 2-methoxy-4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

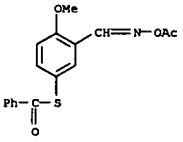


RN 362624-94-0 CAPLUS
CN Benzaldehyde, 2-ethoxy-5-[(4-ethoxyphenyl)sulfonyl]-, O-acetyloxime (9CI) (CA INDEX NAME)

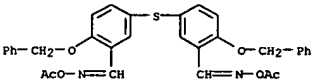


RN 362624-96-2 CAPLUS
CN Benzenecarbothioic acid, S-[3-[[(acetyloxy)imino]methyl]-4-methoxyphenyl] ester (9CI) (CA INDEX NAME)

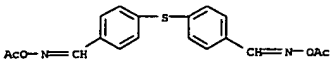
L4 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 362625-00-1 CAPLUS
CN Benzaldehyde, 3,3'-thiobis[6-(phenylmethoxy)-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



RN 362625-01-2 CAPLUS
CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2003 ACS
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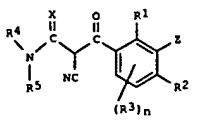


I

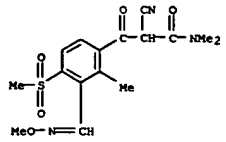
AB The title compds. I [R1 and R2 are each hydrogen, nitro, cyano, halogeno, C1-6 alkyl, C1-6 alkylsulfonyl, or the like; R3 is nitro, cyano, halogeno, C1-6 alkyl, or the like; n is 0, 1 or 2; R4 and R5 are each hydrogen, C1-6 alkyl, C1-6 alkoxy, or the like, or alternatively they may be united to form an alkylene chain, a heterocyclic group, or the like; X is oxygen or sulfur; and Z is formyl, di(C1-6 alkoxy)methyl, Ph, a heterocyclic group, or the like] are prepd. 3-(Azetidin-1-yl)-2-[2-methyl-3-(3-methylisoxazol-5-yl)-4-(methylsulfonyl)phenyl]-3-oxopropanenitrile at 250 g/ha gave 80% to 89% control of Abutilon avicennae.

ACCESSION NUMBER: 2001:581835 CAPLUS
DOCUMENT NUMBER: 135:152794
TITLE: Preparation of substituted cyanoacetamide derivatives as herbicides
INVENTOR(S): Yamanaka, Hiroyuki; Kajita, Satoshi; Tanaka, Katsunori; Koguchi, Masami; Yamada, Shigeo; Takahashi, Akihiro
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd, Japan
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056979	A1	20010809	WO 2001-JP603	20010130

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2000-27226 A 20000131
JP 2000-304838 A 20001004
OTHER SOURCE(S): MARPAT 135:152794
IT 353237-57-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(prepn. of substituted cyanoacetamide derivs. as herbicides)
RN 353237-57-7 CAPLUS
CN Benzenepropanamide, .alpha.-cyano-3-[(methoxyimino)methyl]-N,N,2-trimethyl-4-(methylsulfonyl)-.beta.-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2003 ACS
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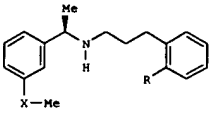
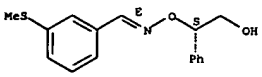


I

AB Chiral (E)-arylaldehyde oxime ethers, prepd. using (R)-1-phenyl-1,2-ethanediol as a chiral auxiliary, underwent nucleophilic addn. with MeLi to give diastereomerically enriched O-alkyl hydroxylamines in 28-85% yields which, after reductive N-O bond cleavage, gave (R)-1-(aryl)ethylamines in 73-95% yields. This methodol. as applied to the enantioselective synthesis of the calcimimetic arylalkylamines (R)-(+)-NPS R-568 (I; X = O; R = Cl) and a thio analog I (X = S; R = H).

ACCESSION NUMBER: 2001:498899 CAPLUS
DOCUMENT NUMBER: 135:316273
TITLE: Nucleophilic addition of methyllithium to chiral oxime ethers: asymmetric preparation of 1-(aryl)ethylamines and application to a synthesis of calcimimetics (+)-NPS R-568 and its thio analogue
AUTHOR(S): Yamazaki, N.; Atobe, M.; Kibayashi, C.
CORPORATE SOURCE: School of Pharmacy, Tokyo University of Pharmacy and Life Science, Hachioji, Tokyo, 192-0392, Japan
SOURCE: Tetrahedron Letters (2001), 42(30), 5029-5032
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:316273
IT 368447-70-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. prepn. of N-(phenylpropyl)phenylethylamines from benzaldehyde O-(hydroxyphenylethyl)oximes via MeLi addn. and chiral N-(phenylethyl)hydroxylamine intermediates)
RN 368447-70-5 CAPLUS
CN Benzaldehyde, 3-(methylthio)-, O-[(1S)-2-hydroxy-1-phenylethyl]oxime, [C(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2003 ACS

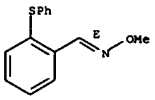
AB Flash vacuum pyrolysis (FVP) of oxime ethers MeON:CRC6H4SPh-4 (R = H, Me, Ph) and of sulfides ArN:CRC6H4SCH2Ph-4 (R = H, Me, Ph; Ar = Ph, p-tolyl) at 650 .degree.C (10-2-10-3 Torr) gave products derived from the corresponding iminyl and thiophenoxyl radicals. In all cases, benz[d]isothiazoles are formed as major products via SHi mechanisms though the yields are greatest with the iminyl precursors. Alternative pathways obsd. from the thiophenoxyls in specific cases include the formation of 3-anilinobenzothiophene and of dibenzothiophene, via an SHi process and a spirodienyl rearrangement, resp. There is no evidence for significant interconversion of the iminyl and thiophenoxyl species.

ACCESSION NUMBER: 2001:314402 CAPLUS
DOCUMENT NUMBER: 135:195511
TITLE: Gas-phase cyclization reactions of 1-(2-arylthiophenyl)alkaniminyl and 2-(aryliminomethyl)thiophenoxyl radicals
AUTHOR(S): Creed, Tim; Leardini, Rino; McNab, Hamish; Nanni, Daniele; Nicolson, Iain S.; Reed, David
CORPORATE SOURCE: Department of Chemistry, The University of Edinburgh, Edinburgh, EH9 3JJ, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1
(2001), (9), 1079-1085
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **356790-07-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(gas-phase cyclization reactions of (arylthiophenyl)alkaniminyl and (aryliminomethyl)thiophenoxyl radicals)

RN 356790-07-3 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-methyloxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

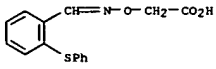
L4 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB Some o-(phenylsulfanyl)- and o-(phenylsulfonyl)-substituted phenyliminyl radicals have been generated by thermal decompn. of suitable tert-Bu iminoxyperacetates. The sulfanyl-substituted iminyls showed no tendency to give either 1,7- or 1,6-ring closure onto the S-Ph ring. They gave instead 1,5-cyclization onto the sulfur atom with release of a Ph radical and formation of benzoisothiazoles. This seems to be the first example of SHi reaction of a nitrogen-centered radical at a sulfide moiety. On the other hand, the sulfonyl-substituted iminyl underwent 1,6-cyclization to a small extent, furnishing a phenanthridine through an unprecedented 1,5-aryl radical migration from sulfur to nitrogen followed by loss of sulfur dioxide and ring closure of an aryl radical.

ACCESSION NUMBER: 2001:314401 CAPLUS
DOCUMENT NUMBER: 135:152605
TITLE: Thermal decomposition of tert-butyl o-(phenylsulfanyl)- and o-(phenylsulfonyl)phenyliminoxyperacetates: The reactivity of thio-substituted iminyl radicals
AUTHOR(S): Leardini, Rino; McNab, Hamish; Minozzi, Matteo; Nanni, Daniele
CORPORATE SOURCE: Dipartimento di Chimica Organica "A. Mangini", Universita di Bologna, Bologna, I-40136, Italy
SOURCE: Journal of the Chemical Society, Perkin Transactions 1
(2001), (9), 1072-1078
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:152605

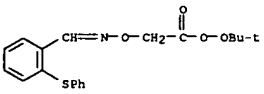
IT **352427-04-4P 352427-08-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(reactivity of thio-substituted iminyl radicals in thermal decompn. of tert-Bu (phenylsulfanyl)- and (phenylsulfonyl)phenyliminoxyperacetates)

RN 352427-04-4 CAPLUS
CN Acetic acid, [[[[2-(phenylthio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



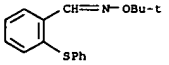
RN 352427-08-8 CAPLUS
CN Ethaneperoxoic acid, [[[[2-(phenylthio)phenyl]methylene]amino]oxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

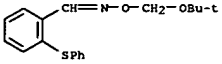


IT **352427-12-4P 352427-13-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(reactivity of thio-substituted iminyl radicals in thermal decompn. of tert-Bu (phenylsulfanyl)- and (phenylsulfonyl)phenyliminoxyperacetates)

RN 352427-12-4 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-(1,1-dimethylethyl)oxime (9CI) (CA INDEX NAME)



RN 352427-13-5 CAPLUS
CN Benzaldehyde, 2-(phenylthio)-, O-[(1,1-dimethylethoxy)methyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 94 THERE ARE 94 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2003 ACS

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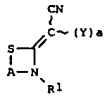


I

AB Title compds. I [R = C1-20 alkyl, C3-8 cycloalkyl, aryl, aryl(C1-4 alkyl), heteroaryl, etc.; R1 = C1-8 alkyl, C3-8 cycloalkyl, aryl, aryl(C1-4 alkyl), heteroaryl, etc.; A = C1-6 alkylene, C2-6 alkenylene, CH2BCH2, CH2OBCH2, ZCO; B = phenylene; Z = C1-4 alkylene; Y = S, sulfinyl, sulfonyl; a = 0-1] are prepd. 4-Chlorophenyl isocyanate was reacted with phenylthioacetonitrile and 1,2-dibromoethane in DMF at room temp. for 3 h to give 30% 2-(4-chlorophenylthio)-2-(3-phenyl-1,3-thiazolidin-2-ylidene)acetonitrile showing good microbicidal activity.

ACCESSION NUMBER: 2000:817502 CAPLUS
DOCUMENT NUMBER: 133:350209
TITLE: Preparation of cyanomethylenethiazolidines and microbicides for agriculture and horticulture
INVENTOR(S): Hayashi, Masatoshi; Endo, Yasuhiro; Komura, Tomozo
PATENT ASSIGNEE(S): Ohtsuka Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

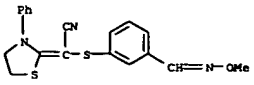
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000319270	A2	20001121	JP 1999-367615	19991224
WO 2001047902	A1	20010705	WO 2000-JP6001	20000905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000068701	A5	20010709	AU 2000-68701	20000905
EP 1243584	A1	20020925	EP 2000-956916	20000905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000017034	A	20030107	BR 2000-17034	20000905

PRIORITY APPLN. INFO.: JP 1999-64656 A 19990311
JP 1999-367615 A 19991224
WO 2000-JP6001 W 20000905

OTHER SOURCE(S): MARPAT 133:350209

IT **304900-32-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

L4 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cyanomethylenethiazolidines and microbicides for agriculture
and horticulture)
RN 304900-32-1 CAPLUS
CN Acetonitrile, [[3-[(methoxyimino)methyl]phenyl]thio](3-phenyl-2-thiazolidinylidene)- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2003 ACS
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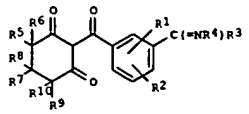


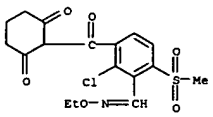
I

AB Herbicides contain title compds. I [R1, R2 = H, halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C1-6 alkylthio, C1-6 alkylsulfinyl, C1-6 alkylsulfonyl;
R3 = H, C1-6 alkyl; R4 = OH, C1-6 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-8 cycloalkyl, C1-6 (halo)alkoxy, etc.; R5-R10 = H, cyano, CHO, halo, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, C1-6 alkylthio, etc.; R5R6, R7R8, R9R10 = O, C2-4 alkylene; R6R9 = C1-4 alkylene] or their
salts. 2,4-Dichloro-3-ethoxyiminobenzoyl chloride (0.50 g) was condensed with 0.21 g cyclohexane-1,3-dione in CH2Cl2 in the presence of Et3N at room temp. for 1 h to give 0.31 g I (R1 = 2-Cl, R2 = 4-Cl, R3 = R5-R10 = H, R4 = OEt). I (R1 = 2-Cl, R2 = 4-SO2Me, R3 = R5 = R6 = R9 = R10 = H, R4
= OMe, R7 = R8 = Me) (at 250 g/ha) showed 100% control of Abutilon theophrasti, Amaranthus lividus, etc. with no damage on corn.
ACCESSION NUMBER: 1999:65317 CAPLUS
DOCUMENT NUMBER: 130:178766
TITLE: Benzoylcyclohexanediones and herbicides containing them
INVENTOR(S): Tanaka, katsunori; Adachi, Koushi; Yamaguchi, Masao; Koguchi, Masami; Kawana, Takashi; Takahashi, Akihiro
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

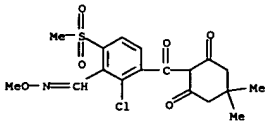
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11021274	A2	19990126	JP 1997-190499	19970701

PRIORITY APPLN. INFO.: JP 1997-190499 19970701
OTHER SOURCE(S): MARPAT 130:178766
IT 220657-81-8 220657-82-9 220657-87-4
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(prepn. of benzoylcyclohexanediones as herbicides)
RN 220657-81-8 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

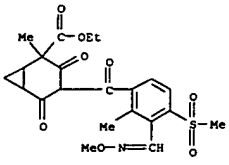
L4 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 220657-82-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(4,4-dimethyl-2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

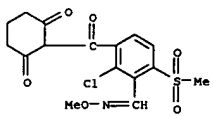


RN 220657-87-4 CAPLUS
CN Bicyclo[4.1.0]heptane-2-carboxylic acid, 4-[3-[(methoxyimino)methyl]-2-methyl-4-(methylsulfonyl)benzoyl]-2-methyl-3,5-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

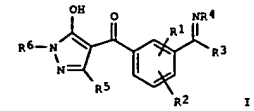


IT 220657-80-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzoylcyclohexanediones as herbicides)
RN 220657-80-7 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2,6-dioxocyclohexyl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



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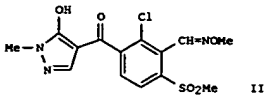


II

AB Compds. of general formula (I; wherein R1 and R2 independently represent each halogen, C1-6 alkyl, C1-6 alkoxy, C1-6 haloalkoxy, C1-6 alkylthio, C1-6 alkylsulfinyl, or C1-6 alkylsulfonyl; R3 represents H or C1-6 alkyl; R4 represents OH, C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, C2-6 haloalkynyl, C3-8 cycloalkyl, C1-6 alkoxy, C1-6 alkoxy-C1-6 alkyl, etc.; and R5 and R6 independently represent each hydrogen, C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, C2-6 alkynyl, or C3-8 cycloalkyl) and salts thereof, which are herbicides having a high crop selectively, are prepd. Thus, 2-chloro-4-methanesulfonyl-3-dimethoxymethylbenzoic acid was condensed with 1-methyl-5-hydroxypyrazole hydrochloride in the presence of Et3N and DCC in EtOAc followed by treating the product with acetone cyanohydrin and Et3N in CHCl3 at room temp. for 6 h to give 1-methyl-5-hydroxy-4-(2-chloro-4-methanesulfonyl-3-dimethoxymethyl)pyrazole. The latter compd. was refluxed with a mixt. of concd. HCl and acetone for 1 h to give 1-methyl-5-hydroxy-4-(2-chloro-4-methanesulfonyl-3-formylbenzoyl)pyrazole which was condensed with methoxyamine in CHCl3 at room temp. for 1 h to give the title compd. (II).
II at 250 g/ha post emergence controlled 100% Amaranthus Blitum, Xanthium pensylvanicum, and Setaria faberii and gave no damage to corn seedlings.

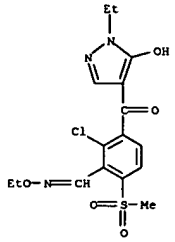
ACCESSION NUMBER: 1998:682370 CAPLUS
DOCUMENT NUMBER: 129:302634
TITLE: Preparation of 4-benzoylpyrazole derivatives as herbicides
INVENTOR(S): Tanaka, Katsunori; Adachi, Hiroyuki; Miyahara, Osamu; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9845273	A1	19981015	WO 1998-JP1583	19980406
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9865234	A1	19981030	AU 1998-65234	19980406
JP 10338675	A2	19981222	JP 1998-108455	19980406

PRIORITY APPLN. INFO.: JP 1997-89233 19970408
WO 1998-JP1583 19980406

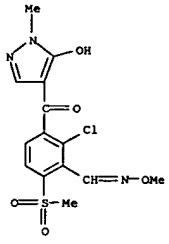
OTHER SOURCE(S): MARPAT 129:302634
IT 209795-46-0P 209795-52-8P 209795-53-9P 214476-43-4P 214476-44-5P 214476-49-0P 214476-52-5P 214476-53-6P 214476-54-7P 214476-56-9P 214476-57-0P 214476-58-1P 214476-59-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzoylpyrazole derivs. as herbicides)

RN 209795-46-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

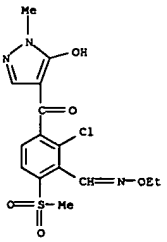


RN 209795-52-8 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

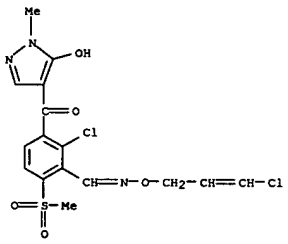


RN 209795-53-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

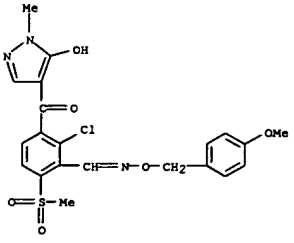


RN 214476-43-4 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(3-chloro-2-propenyl)oxime] (9CI) (CA INDEX NAME)

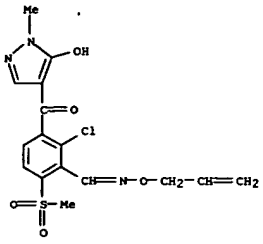
L4 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



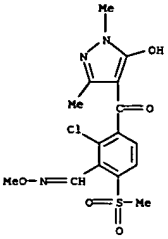
RN 214476-44-5 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-[(4-methoxyphenyl)methyl]oxime] (9CI) (CA INDEX NAME)



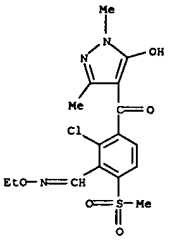
RN 214476-49-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-2-propenyloxime) (9CI) (CA INDEX NAME)



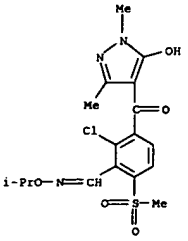
RN 214476-52-5 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



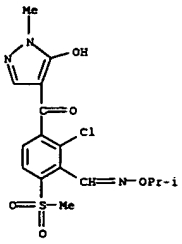
RN 214476-53-6 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(1-methylethyl)oxime] (9CI) (CA INDEX NAME)



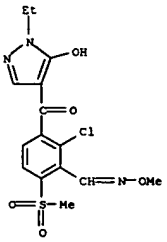
RN 214476-57-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(1-methylethyl)oxime] (9CI) (CA INDEX NAME)



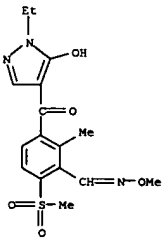
RN 214476-58-1 CAPLUS
CN Benzaldehyde, 3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-2-methyl-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



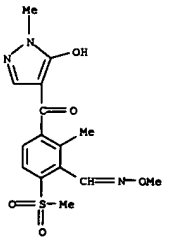
RN 214476-54-7 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



RN 214476-56-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

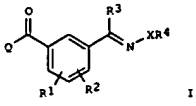


RN 214476-59-2 CAPLUS
CN Benzaldehyde, 3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-2-methyl-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



I

AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, rhodano, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl, OR5, OCOR6, OSO2R6, SH, SOnR7, SO2OR5, SO2NR5R8, NR8SO2R6, NR8COR6; R3 = H, cyano, alkyl, haloalkyl, OR7, SR7, NR7R10; R4 = H, (substituted) alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, COR9, CO2R9, COSR9 CONR8R9; X = O, NR8; n = 0, 1, 2; R5 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R6 = alkyl, haloalkyl; R7 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R8 = H, alkyl; R9 = alkyl, alkenyl, alkynyl, Ph, PhCH2; R10 = alkyl, haloalkyl, alkenyl, alkynyl; Q = substituted pyrazol-4-yl], were prepd. as herbicides (no data). Thus, 2,4-dichloro-3-ethoxyiminomethylbenzoic acid, 2-ethyl-3-hydroxypyrazole, and DCC were stirred 12 h in MeCN at room temp. to give 4-(2,4-dichloro-3-ethoxyiminomethylbenzoyl)-2-ethyl-3-hydroxypyrazole.

ACCESSION NUMBER: 1998:485043 CAPLUS
DOCUMENT NUMBER: 129:95490
TITLE: Preparation of substituted 4-benzoylpyrazoles as herbicides.
INVENTOR(S): Hill, Regina Luise; Kardorff, Uwe; Rack, Michael; Gotz, Norbert; Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan; Mayer, Guido; Otten, Martina; Reinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-otto
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: PCT Int. Appl., 296 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

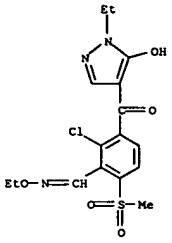
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829392	A1	19980709	WO 1997-EP7210	19971219
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19700096	A1	19980709	DE 1997-19700096	19970103
AU 9860908	A1	19980731	AU 1998-60908	19971219
AU 744201	B2	20020221		
EP 960100	A1	19991201	EP 1997-954936	19971219

L4 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT

CN 1247532	A	20000315	CN 1997-181884	19971219
BR 9714257	A	20000418	BR 1997-14257	19971219
JP 2001508421	T2	20010626	JP 1998-529588	19971219
NZ 336452	A	20010629	NZ 1997-336452	19971219
ZA 9800007	A	19990702	ZA 1998-7	19980102
US 6028035	A	20000222	US 1999-331671	19990623

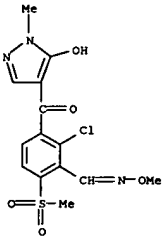
PRIORITY APPLN. INFO.: DE 1997-19700096 A 19970103
WO 1997-EP7210 W 19971219

OTHER SOURCE(S): MARPAT 129:95490
IT 209795-46-0P 209795-52-8P 209795-53-9P 209795-55-1P 209795-56-2P 209795-57-3P 209795-58-4P 209795-59-5P 209795-62-0P 209795-72-2P 209795-73-3P 209795-74-4P 209795-75-5P 209795-76-6P 209795-78-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted 4-benzoylpyrazoles as herbicides)
RN 209795-46-0 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

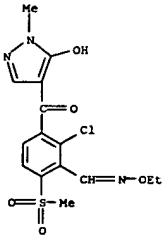


RN 209795-52-8 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

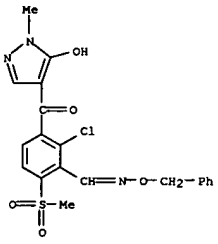


RN 209795-53-9 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)

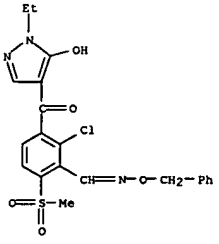


RN 209795-55-1 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(phenylmethyl)oxime] (9CI) (CA INDEX NAME)

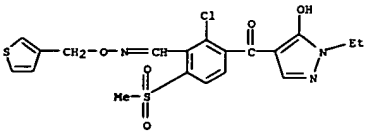
L4 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



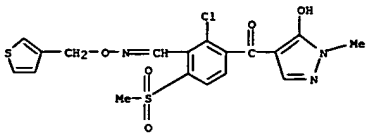
RN 209795-56-2 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(phenylmethyl)oxime] (9CI) (CA INDEX NAME)



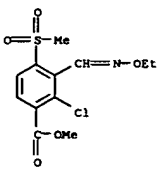
RN 209795-57-3 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)-, 1-[O-(3-thienylmethyl)oxime] (9CI) (CA INDEX NAME)



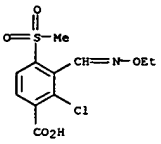
RN 209795-58-4 CAPLUS
CN Benzaldehyde,
2-chloro-3-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-6-
(methylsulfonyl)-, 1-[O-(3-thienylmethyl)oxime] (9CI) (CA INDEX NAME)



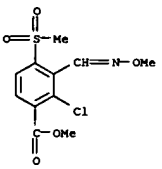
RN 209795-59-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)-,
methyl
ester (9CI) (CA INDEX NAME)



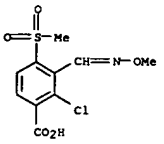
RN 209795-62-0 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)- (9CI)
(CA INDEX NAME)



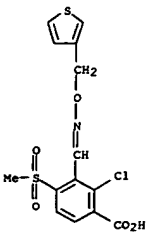
RN 209795-72-2 CAPLUS
CN Benzoic acid,
2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]-
, methyl ester (9CI) (CA INDEX NAME)



RN 209795-76-6 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)- (9CI)
(CA INDEX NAME)

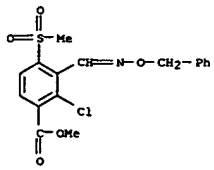


RN 209795-78-8 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-
thienylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)

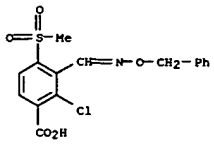


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE

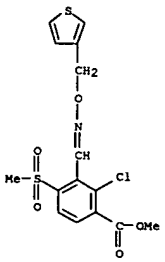
FORMAT



RN 209795-73-3 CAPLUS
CN Benzoic acid,
2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]-
(9CI) (CA INDEX NAME)

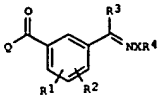


RN 209795-74-4 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-
thienylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 209795-75-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)-,
methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



I

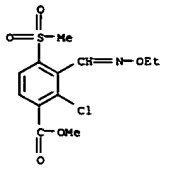
AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, rhodano, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl, OR5, OCOR6, OSO2R6, SH, S(O)nR7, SO2OR5, SO2NR5R8, NR8SO2R6, NR8COR6; R3 = H, cyano, alkyl, haloalkyl, OR7, SR7, NR7R10; R4 = H, (substituted) alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, COR9, CO2R9, COSR9, CONR8R9; X = O, NR8; n = 0, 1, 2; R5 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R6 = alkyl, haloalkyl; R7 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R8 = H, alkyl; R9 = alkyl, alkenyl, alkynyl, Ph, PhCH2; R10 = alkyl, haloalkyl, alkenyl, alkynyl; Q = (substituted) 2-cyclohexane-1,3-dione], were prepd. as herbicides (no data). Thus, 2,4-dichloro-3-propargyloxyiminomethylbenzoic acid in MeCN was treated with dimedone and DCC followed by 12 h stirring to give a residue which was stirred 3 h with acetone cyanohydrin and Et3N in MeCN to give 2-(2,4-dichloro-3-propargyloxyiminomethylbenzoyl)-5,5-dimethyl-1,3-cyclohexanedione.

ACCESSION NUMBER: 1998:485037 CAPLUS
DOCUMENT NUMBER: 129:108900
TITLE: Preparation of substituted 2-benzoylcyclohexane-1,3-diones as herbicides.
INVENTOR(S): Hill, Regina Luise; Kardorff, Uwe; Rack, Michael; Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan; Mayer, Guido; Otten, Martina; Rheinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-Otto
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

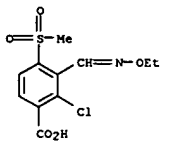
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829384	A1	19980709	WO 1997-EP7214	19971219
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19700019	A1	19980709	DE 1997-19700019	19970103
AU 9857626	A1	19980731	AU 1998-57626	19971219
AU 742501	B2	20020103		
EP 958276	A1	19991124	EP 1997-953895	19971219
EP 958276	B1	20020313		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT				
CN 1245488	A	20000223	CN 1997-181600	19971219
BR 9714258	A	20000418	BR 1997-14258	19971219
JP 2001507690	T2	20010612	JP 1998-529590	19971219
NZ 336879	A	20010928	NZ 1997-336879	19971219
AT 214363	E	20020315	AT 1997-953895	19971219
ZA 9800006	A	19990702	ZA 1998-6	19980102

PRIORITY APPLN. INFO.: DE 1997-19700019 A 19970103
WO 1997-EP7214 W 19971219
OTHER SOURCE(S): MARPAT 129:108900
IT 209795-59-5P 209795-62-0P 209795-72-2P 209795-73-3P 209795-74-4P 209795-75-5P 209795-76-6P 209795-78-8P 209865-92-9P 209866-00-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted 2-benzoylcyclohexane-1,3-diones as herbicides)

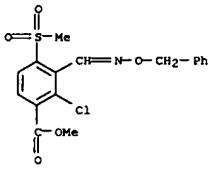
RN 209795-59-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



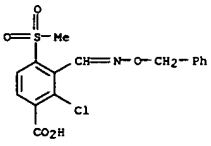
RN 209795-62-0 CAPLUS
CN Benzoic acid, 2-chloro-3-[(ethoxyimino)methyl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)



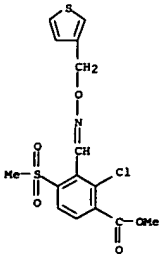
RN 209795-72-2 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



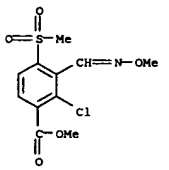
RN 209795-73-3 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(phenylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)



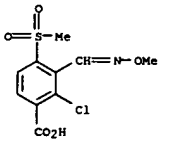
RN 209795-74-4 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



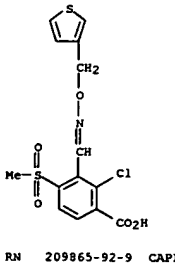
RN 209795-75-5 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 209795-76-6 CAPLUS
CN Benzoic acid, 2-chloro-3-[(methoxyimino)methyl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)

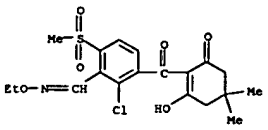


RN 209795-78-8 CAPLUS
CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[[(3-thienylmethoxy)imino]methyl]- (9CI) (CA INDEX NAME)

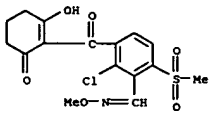


RN 209865-92-9 CAPLUS

L4 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN Benzaldehyde, 2-chloro-3-[(2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexen-1-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-ethyloxime) (9CI) (CA INDEX NAME)



RN 209866-00-2 CAPLUS
CN Benzaldehyde, 2-chloro-3-[(2-hydroxy-6-oxo-1-cyclohexen-1-yl)carbonyl]-6-(methylsulfonyl)-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Compds. of general formula [I; ring Y = Q - Q3; A = alkylene optionally interrupted with phenylene or hetero atoms and optionally contg. oxo and/or unsatd. bonds; B = H, alkyl, aralkyl, acyl; R = CO2R1, CH2OR2, CONR3R4; R1, R2 = H, alkyl; R3, R4 = H, alkyl, OH, alkylsulfonyl; X1 = single bond, phenylene, naphthylene, thiophenediyl, indolediyl, oxazolediyl; X2 = single bond, N:N, N:CH, CH:N, CH:NN, CH:NO, C:NNHCSNH, C:NNHCONH, CH:CH, CH(OH), CCl:CCl, (CH2)n, C.tplbond.C, NR5, NR5CO, NR5SO2, NR5CONR5, CONR5, SO2NR5, O, S, SO, SO2, CO, oxadiazolediyl, thiadiazolediyl, tetrazolediyl; wherein R5 = H, alkyl; X3 = alkyl, alkenyl, alkynyl, aryl, aralkyl, heterocyclyl, cycloalkyl, cycloalkenyl, thiazolylidene, etc.; Z = SO2, CO; m = 0,1; wherein if the substituents are in the form of rings, they may be optionally substituted] or salts thereof or hydrates thereof are prepd. These compds. are useful as a PGD2 antagonists and thus usable in, for example, a remedy for systemic mastocytosis or systemic mast cell activation disorders, a drug for bronchoconstriction, an antiasthmatic, a drug for allergic rhinitis agent, a drug for allergic conjunctivitis, a drug for urticaria, a remedy for ischemia reperfusion disorders or an antiinflammatory agent. They are particularly useful in the treatment of nasal occlusion. Thus, a bicyclo[2.2.1]heptane deriv. (II; R = Me, R7 = H) was condensed with 2-chlorosulfonyldibenzofuran in the presence of Et3N in CH2Cl2 to give, after sapon., II .Na (R = H, R7 = Q3). I in vitro inhibited the binding of [3H]PGD2 to PGD2 receptor prepn. from human blood platelet fraction with IC50 of 0.003-8.6 .mu.M. A tablet and granule formulation contg. the title compd. (III.1/2Ca) were described.
ACCESSION NUMBER: 1997:145245 CAPLUS
DOCUMENT NUMBER: 126:157408
TITLE: Preparation of N-(arylcarbonyl or heterocyclylcarbonyl)amino(carboxyalkenyl)bicycloheptane derivatives or analogs thereof and prostaglandin D2 (PGD2) antagonists containing the same
INVENTOR(S): Ohtani, Mitsuaki; Arimura, Akinori; Tsuri, Tatsuo; Kishino, Junji; Honma, Tsunetoshi
PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan; Ohtani, Mitsuaki; Arimura, Akinori; Tsuri, Tatsuo; Kishino, Junji; Honma, Tsunetoshi
SOURCE: PCT Int. Appl., 242 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

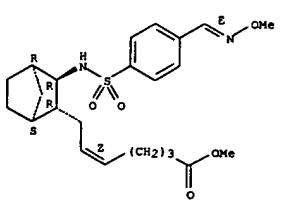
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700853	A1	19970109	WO 1996-JP1685	19960619
W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2225250	AA	19970109	CA 1996-2225250	19960619
AU 9661370	A1	19970122	AU 1996-61370	19960619

L4 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

AU 714312	B2	19991223		
EP 837052	A1	19980422	EP 1996-918841	19960619
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
CN 1193315	A	19980916	CN 1996-196326	19960619
BR 9608498	A	19990706	BR 1996-8498	19960619
CZ 285870	B6	19991117	CZ 1997-4013	19960619
JP 3195361	B2	20010806	JP 1997-503724	19960619
JP 2001288160	A2	20011016	JP 2001-73708	19960619
NO 9705994	A	19980223	NO 1997-5994	19971219
US 6172113	B1	20010109	US 1998-973983	19980422
US 6384075	B1	20020507	US 2000-506608	20000218
US 6498190	B1	20021224	US 2000-506606	20000218

PRIORITY APPLN. INFO.: JP 1995-154575 A 19950621
JP 1997-503724 A3 19960619
WO 1996-JP1685 W 19960619
US 1998-973983 A3 19980422
OTHER SOURCE(S): MARPAT 126:157408
IT **186529-44-2P 186529-45-3P 186529-46-4P 186529-47-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino(carboxyalkenyl)bicycloheptane derivs. as prostaglandin D2 antagonists for disease therapy)
RN 186529-44-2 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(methoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, methyl ester, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

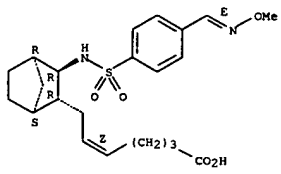
Absolute stereochemistry.
Double bond geometry as shown.



RN 186529-45-3 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(methoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

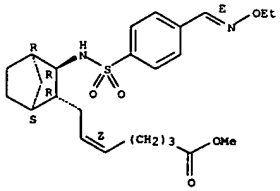
Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 186529-46-4 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(ethoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, methyl ester, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

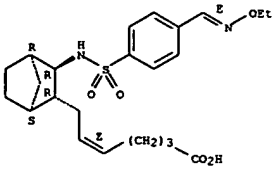
Absolute stereochemistry.
Double bond geometry as shown.



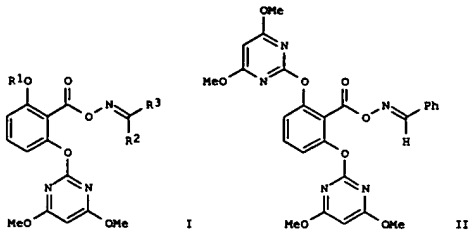
RN 186529-47-5 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[[4-[(ethoxyimino)methyl]phenyl]sulfonyl]amino]bicyclo[2.2.1]hept-2-yl]-, [1S-[1.alpha.,2.alpha.(Z),3.beta.(E),4.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 13 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, COR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

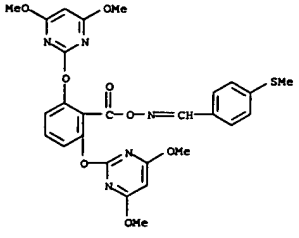
L4 ANSWER 13 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 658549	A1	19950621	EP 1994-117857	19941111
EP 658549	B1	20010523		
R: CH, DE, FR, GB, LI, NL				
KR 9701480	B1	19970206	KR 1993-24099	19931113
KR 120271	B1	19971104	KR 1993-30055	19931227
KR 120270	B1	19971104	KR 1993-31016	19931229
US 5521146	A	19960528	US 1994-339249	19941110
BR 9404436	A	19951017	BR 1994-4436	19941111
CN 1111623	A	19951115	CN 1994-117926	19941111
CN 1043885	B	19990630		
AU 9478812	A1	19950608	AU 1994-78812	19941114
AU 673629	B2	19961114		
JP 07196629	A2	19950801	JP 1994-279506	19941114
JP 2517215	B2	19960724		

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229

OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208

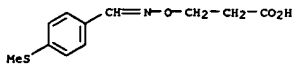
IT **168088-53-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)
RN 168088-53-7 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



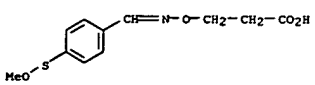
L4 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2003 ACS
AB This paper reports the platelet anti-aggregating activity induced by arachidonic acid (AA) and by adenosine-diphosphate (ADP), together with the anti-inflammatory activity evaluated by the carrageenan-induced rat paw edema method, of a series of .beta.-aminoxypropionic acids which were projected and synthesized as analogs of non-steroidal anti-inflammatory drugs with an arylacetic structure B, in which the arom. group is substituted by a methyleneaminoxymethyl moiety. Some of the .beta.-aminoxypropionic acids were evaluated for their capacity to inhibit the cyclooxygenase enzyme by measuring the malondialdehyde (MDA) produced by incubation of sodium arachidonate with platelet-rich plasma (PRP).

ACCESSION NUMBER: 1995:418699 CAPLUS
DOCUMENT NUMBER: 122:230145
TITLE: Synthesis, platelet anti-aggregating activity and anti-inflammatory activity of a series of .beta.-aminoxypropionic acids
AUTHOR(S): Macchia, Marco; Orlandini, Elisabetta; Rossello, Armando; Bertini, Simone; Soldani, Giulio; Baldacci, Massimo; Gervasi, Gianbattista
CORPORATE SOURCE: Dip. Sci. Farm., Univ. Pisa, Pisa, 56126, Italy
SOURCE: Farmaco (1994), 49(12), 767-73
CODEN: FRMCE8
PUBLISHER: Societa Chimica Italiana
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **162287-71-0P 162287-72-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and platelet anti-aggregating activity and anti-inflammatory activity of a series of .beta.-aminoxypropionic acids)
RN 162287-71-0 CAPLUS
CN Propanoic acid, 3-[[[[4-(methylthio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 162287-72-1 CAPLUS
CN Propanoic acid, 3-[[[[4-(methoxythio)phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB R5ON:CR4Z1AXZ2C(OR1)R2R3 [A = bond, alkylene; R1 = alk(en)yl; R2R3 = atoms to complete a heterocyclic ring; R4 = H, alkyl, Ph, etc.; R5 = H, alk(en)yl, alkanoyl, CONH2, etc.; X = O, SOO-2; Z1 = phenylene, heteroarylene, etc.; Z2 = phenylene, pyridinediyl, thiophenediyl, etc.] were prepd. Thus, 4-(2-methyl-1,3-dioxolan-2-yl)benzenethiol (prepn. in 4 steps from 4-BrC6H4COMe given) was condensed with (2S,4R)-4-(3,5-difluorophenyl)-4-methoxy-2-methyltetrahydropyran and the product converted in 2 steps to title compd. (2S,4R)-I which had ID50 of .apprx.0.05mg/kg orally against zymosan-induced LTB4 prodn. in rat subcutaneous air pouch.

ACCESSION NUMBER: 1995:70 CAPLUS
DOCUMENT NUMBER: 122:187392
TITLE: Preparation of [heterocyclylarylthio]aryl ketoximes and analogs as 5-lipoxygenase inhibitors
INVENTOR(S): Bird, Thomas Geoffrey Colerick; Ple, Patrick
PATENT ASSIGNEE(S): Zeneca Ltd., UK; Zeneca-Pharma
SOURCE: Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

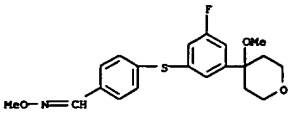
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 555068	A1	19930811	EP 1993-300782	19930203
EP 555068	B1	19960410		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
ZA 9300504	A	19930809	ZA 1993-504	19930122
AU 9331972	A1	19930812	AU 1993-31972	19930122
AU 658964	B2	19950504		
HU 63840	A2	19931028	HU 1993-272	19930203
AT 136546	E	19960415	AT 1993-300782	19930203
ES 2086878	T3	19960701	ES 1993-300782	19930203
CA 2088864	AA	19930808	CA 1993-2088864	19930205
NO 9300411	A	19930809	NO 1993-411	19930205
JP 05286957	A2	19931102	JP 1993-18574	19930205
US 5332757	A	19940726	US 1993-14564	19930208
US 5482966	A	19960109	US 1994-240464	19940613

PRIORITY APPLN. INFO.: EP 1992-400318 19920207
EP 1992-402764 19921009
US 1993-14564 19930208
OTHER SOURCE(S): MARPAT 122:187392

IT **158346-55-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of [(heterocyclyl)arylthio]aryl ketoximes and analogs as 5-lipoxygenase inhibitors)

RN 158346-55-5 CAPLUS
CN Benzaldehyde, 4-[[3-fluoro-5-(tetrahydro-4-methoxy-2H-pyran-4-yl)phenyl]thio]-, O-methyloxime (9CI) (CA INDEX NAME)

L4 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2003 ACS

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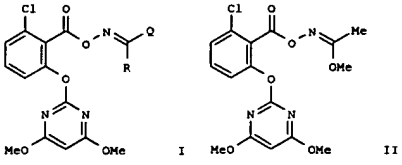


AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [[2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[1-methoxyethylidene]amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608862	A1	19940803	EP 1994-101132	19940126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
KR 9603323	B1	19960308	KR 1993-1017	19930127
KR 9612180	B1	19960916	KR 1993-10097	19930604
KR 9612179	B1	19960916	KR 1993-10098	19930604
KR 9612181	B1	19960916	KR 1993-10099	19930604
KR 9612194	B1	19960916	KR 1993-10100	19930604
KR 9612195	B1	19960916	KR 1993-10101	19930604
CN 1101345	A	19950412	CN 1994-102665	19940126
US 5494888	A	19960227	US 1994-186589	19940126
BR 9400365	A	19940816	BR 1994-365	19940127
JP 07149735	A2	19950613	JP 1994-7824	19940127
JP 2543665	B2	19961016		

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127
KR 1993-10097 A 19930604
KR 1993-10098 A 19930604

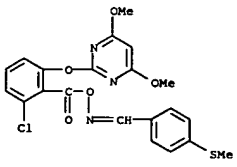
L4 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

KR 1993-10099 A 19930604
KR 1993-10100 A 19930604
KR 1993-10101 A 19930604

OTHER SOURCE(S): MARPAT 121:205344

IT **157990-23-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 157990-23-3 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl]oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB Numerous title herbicides R1CH:NOCHR2C(X)NH(CH2)nR3 (R1 = (un)substituted Ph, 2-thienyl, 2-furyl; R2 = Me, Et; R3 = (un)substituted Ph, 2-thienyl; X = O, S; n = 0, 1) were prepd. Thus, 3-ClC6H4CH:NOH upon treatment with EtCHBrCONHCH2Ph and K2CO3 in acetone afforded I (R1 = 3-ClC6H4, R2 = Et, R3 = Ph, X = O, n = 1).

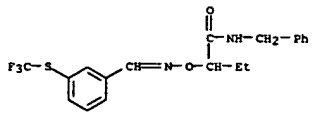
ACCESSION NUMBER: 1991:558704 CAPLUS
DOCUMENT NUMBER: 115:158704
TITLE: Benzylideneaminoxyalkanoic acid (thio)amide derivative, process for preparing the same and herbicide
INVENTOR(S): Harada, Katsumasa; Akiyoshi, Yuji; Abe, Takaaki; Shiraishi, Hiroshi; Yamamoto, Kaoru; Hayama, Takashi; Shiraishi, Ikuo
PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 427445	A1	19910515	EP 1990-311904	19901030
EP 427445	B1	19940608		
R: DE, ES, FR, GB, IT				
JP 03151353	A2	19910627	JP 1989-289950	19891109
JP 2745737	B2	19980428		
JP 03261760	A2	19911121	JP 1990-56662	19900309
ES 2055342	T3	19940816	ES 1990-311904	19901030

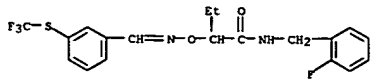
PRIORITY APPLN. INFO.: JP 1989-289950 19891109
JP 1990-56662 19900309
OTHER SOURCE(S): MARPAT 115:158704
IT 134814-15-6P 134814-16-7P 134814-17-8P 134814-18-9P 134814-19-0P 134814-20-3P 134814-21-4P 134814-22-5P 134814-23-6P 134814-24-7P 134814-25-8P 134814-26-9P 134814-27-0P 134814-28-1P 134814-29-2P 134814-30-5P 134814-31-6P 134814-32-7P 134814-33-8P 134814-34-9P 134814-35-0P 134814-36-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 134814-15-6 CAPLUS
CN Butanamide, N-(phenylmethyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

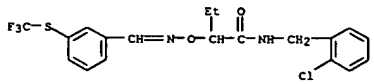
L4 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



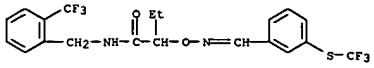
RN 134814-16-7 CAPLUS
CN Butanamide, N-[(2-fluorophenyl)methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 134814-17-8 CAPLUS
CN Butanamide, N-[(2-chlorophenyl)methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

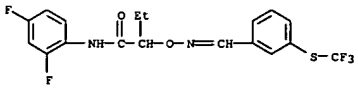


RN 134814-18-9 CAPLUS
CN Butanamide, N-[[2-(trifluoromethyl)phenyl]methyl]-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

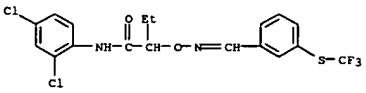


RN 134814-19-0 CAPLUS
CN Butanamide, N-(2,4-difluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

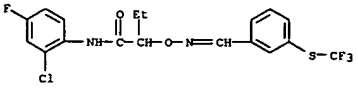
L4 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



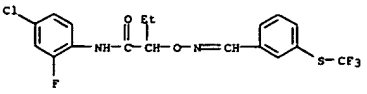
RN 134814-20-3 CAPLUS
CN Butanamide, N-(2,4-dichlorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 134814-21-4 CAPLUS
CN Butanamide, N-(2-chloro-4-fluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

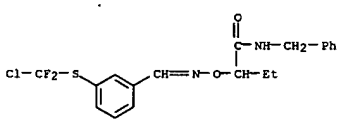


RN 134814-22-5 CAPLUS
CN Butanamide, N-(4-chloro-2-fluorophenyl)-2-[[[[3-[(trifluoromethyl)thio]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)

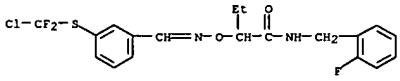


RN 134814-23-6 CAPLUS
CN Butanamide, 2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

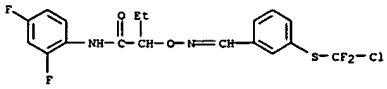
L4 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



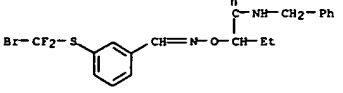
RN 134814-24-7 CAPLUS
CN Butanamide, 2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-[(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



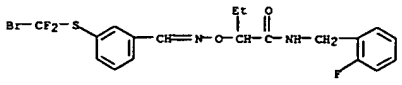
RN 134814-25-8 CAPLUS
CN Butanamide, 2-[[[[3-[(chlorodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-(2,4-difluorophenyl)- (9CI) (CA INDEX NAME)



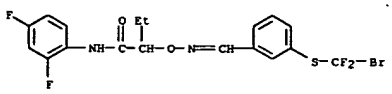
RN 134814-26-9 CAPLUS
CN Butanamide, 2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



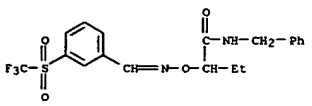
RN 134814-27-0 CAPLUS
CN Butanamide, 2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-N-[(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



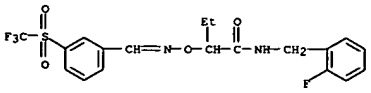
RN 134814-28-1 CAPLUS
CN Butanamide,
2-[[[[3-[(bromodifluoromethyl)thio]phenyl]methylene]amino]oxy]-
N-(2,4-difluorophenyl)- (9CI) (CA INDEX NAME)



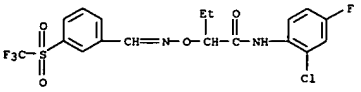
RN 134814-29-2 CAPLUS
CN Butanamide,
N-(phenylmethyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phenyl]met
hylene]amino]oxy]- (9CI) (CA INDEX NAME)



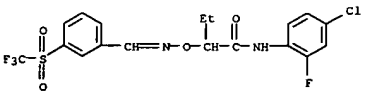
RN 134814-30-5 CAPLUS
CN Butanamide, N-[(2-fluorophenyl)methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

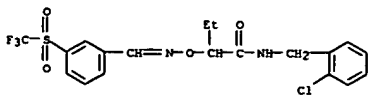


RN 134814-31-6 CAPLUS
CN Butanamide, N-[(2-chlorophenyl)methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

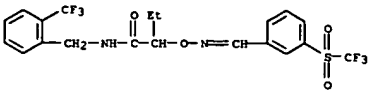


RN 134814-36-1 CAPLUS
CN Butanamide, N-(4-chloro-2-fluorophenyl)-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)

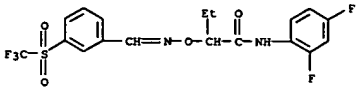




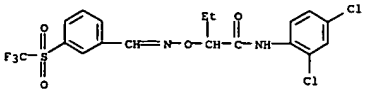
RN 134814-32-7 CAPLUS
CN Butanamide, N-[[2-(trifluoromethyl)phenyl]methyl]-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)



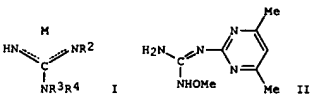
RN 134814-33-8 CAPLUS
CN Butanamide,
N-(2,4-difluorophenyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phen
yl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



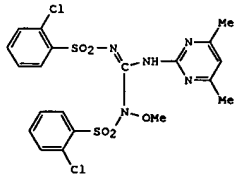
RN 134814-34-9 CAPLUS
CN Butanamide,
N-(2,4-dichlorophenyl)-2-[[[[3-[(trifluoromethyl)sulfonyl]phen
yl]methylene]amino]oxy]- (9CI) (CA INDEX NAME)



RN 134814-35-0 CAPLUS
CN Butanamide, N-(2-chloro-4-fluorophenyl)-2-[[[[3-
[(trifluoromethyl)sulfonyl]phenyl]methylene]amino]oxy]- (9CI) (CA INDEX
NAME)



I II



III

AB The title compds. I [R2 = (substituted) pyrimidinyl; R3 = H, C1-4 alkyl; R4 = OR8; R8 = (substituted) C1-6 alkyl, C3-6 cycloalkyl, (substituted) PhCH2; or R4 = NR9R10; R9 = H, C1-4 alkyl; R10 = (substituted) C1-4 alkyl, C3-6 alkenyl, C3-6 cycloalkyl, etc.; M = undefined] were prepd. Reaction of 2-cyanoamino-4,6-dimethylpyrimidine with MeONH2.HCl gave 55% pyrimidine II. Pyrimidine III is said to show an excellent inhibitory activity against the growth of soybeans.

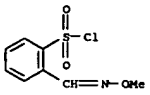
ACCESSION NUMBER: 1990:497620 CAPLUS
DOCUMENT NUMBER: 113:97620
TITLE: Guanidinopyrimidines as herbicides and plant growth regulators and their preparation
INVENTOR(S): Moriya, Koichi; Pfister, Theodor; Riebel, Hans Jochem; Eue, Ludwig; Schmidt, Robert R.; Luerrsen, Klaus
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: U.S., 84 pp. Cont.-in-part of U.S. 4,721,785.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4880932	A	19891114	US 1987-44083	19870429
DE 3334455	A1	19840906	DE 1983-3334455	19830923
US 4602938	A	19860729	US 1984-578345	19840209
US 4721785	A	19880126	US 1986-853822	19860418
US 4844730	A	19890704	US 1988-224973	19880727
PRIORITY APPLN. INFO.:			DE 1983-3307679	19830304

L4 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

	DE 1983-3334455	19830923
	US 1984-578345	19840209
	US 1986-853822	19860418
	US 1987-44083	19870429

OTHER SOURCE(S): MARPAT 113:97620
IT **94808-27-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of herbicide and plant growth regulator)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI

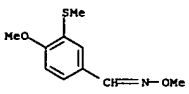
CHXNYBR2Q I

AB The title compds. [I; R1 = alkyl, (alkyl)amino, halo, CF3, NO2, etc., R2 = C1-23 alkylene, alkenylene, alkynylene; B = CO, SO2, CONH, etc.; Q = alkyl, (alkyl)amino, halo, CF3, etc.; X, Y = H, alkyl], useful as antiinflammatory and analgesic agents, are prepd. Addn. of p-HOC6H4CN with EtOCH:CH2 in CHCl3 in the presence of HCl gave 72.7% p-EtOCHMeOC6H4CN which was reduced with LiAlH4 in THF to give 97.9% p-EtOCHMeOC6H4CH2NH2 (II). A soln. of nonyl chloride in THF was added to a stirred soln. of II and Et3N in THF with stirring, evapd., the residue hydrolyzed with HCl in CH2Cl2 to give 73.4% I (R1 = X = Y = H, B = CO, R2Q = octyl), which was chlorinated with Cl in CHCl3 to give 51.3% I (R1 = Cl, X = Y = H, B = CO, R2Q = octyl), which showed ED50 of 3.4 mg/kg .+-. 0.8215 in mice in antiwrithing test.
ACCESSION NUMBER: 1989:614238 CAPLUS
DOCUMENT NUMBER: 111:214238
TITLE: Preparation of N-benzylcarboxamide derivatives having antiinflammatory and analgesic activity
INVENTOR(S): Johnson, Graham; Rafferty, Michael Francis
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

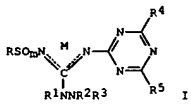
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8904297	A1	19890518	WO 1987-US2886	19871104
W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8782702	A1	19890601	AU 1987-82702	19871104
US 4980366	A	19901225	US 1989-324966	19890316

PRIORITY APPLN. INFO.: US 1986-898160 19860819
WO 1987-US2886 19871104
OTHER SOURCE(S): CASREACT 111:214238; MARPAT 111:214238
IT **123652-99-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and redn. of)
RN 123652-99-3 CAPLUS
CN Benzaldehyde, 4-methoxy-3-(methylthio)-, O-methyloxime (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



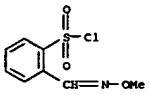
I

AB The title compds. I [R = alkyl, haloalkyl, (un)substituted Ph, quinolinyl, pyrrolyl, furyl or thienyl; R1 = H, (un)substituted alkyl, etc.; R2 = H, alkyl, R3 = R2, alkenyl, alkynyl, (un)substituted Ph; NR2R3 = heterocyclyl; R4,R5 = alkyl, alkoxy, etc.; M = H, metal, NH4, etc.; m = 0, 1, 2] and I acid adducts which are herbicides and plant growth regulators, were prepd.. One part I (R = 2-ClC6H4, R1 = M = H, R2 = R3 = R4 = Me, R5 = OMe, n = 2) formulated with 5 parts acetone and 1 part alkylaryl polyglycol ether controlled unspecified weed species when supplied pre- or postemergence.
ACCESSION NUMBER: 1989:90612 CAPLUS
DOCUMENT NUMBER: 110:90612
TITLE: N'-(substituted-1,3,5-triazinyl)-N"-amino-N'''-(substituted-benzenesulfonyl)guanidine herbicides and plant growth regulators
INVENTOR(S): Diehr, Hans Joachim; Fest, Christa; Kluth, Joachim; Muller, Klaus Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans Jochem; Roy, Wolfgang; Santel, Hans Joachim; et al.
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: U.S., 65 pp. Cont.-in-part of U.S. Ser. No. 769,222.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

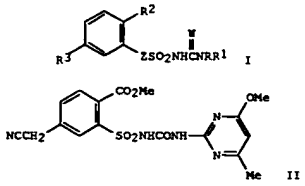
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4743294	A	19880510	US 1987-41260	19870422
DE 3334455	A1	19840906	DE 1983-3334455	19830923
US 4602938	A	19860729	US 1984-578345	19840209
DE 3517821	A1	19860313	DE 1985-3517821	19850517
US 4721785	A	19880126	US 1986-853822	19860418

PRIORITY APPLN. INFO.: DE 1983-3307679 19830304
DE 1983-3334455 19830923
US 1984-578345 19840209
DE 1984-3431925 19840830
DE 1985-3517821 19850517
US 1985-769222 19850823
US 1986-853822 19860418
OTHER SOURCE(S): MARPAT 110:90612
IT **94808-27-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L4 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
(Reactant or reagent)
(prepn. and reaction of, with pyrimidine and triazine derivs.)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



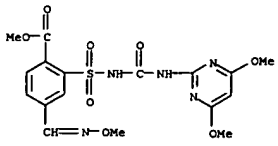
L4 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI



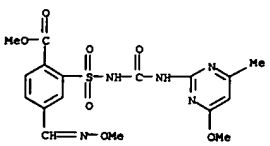
AB The title compds. [I; R = H, Me; R1 = substituted 1H-1,2,4-triazol-2-yl, 1,3,5-triazin-2-ylmethyl, 2-pyridinyl (un)substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl, and their fused-ring analogs; R2 = (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)alkenyloxy, alkynyloxy, Ph, acyl, heterocyclyl, Br, Cl, F, (un)substituted alkyl; R3 = substituted alkyl, dioxolanyl, dithiolanyl, dioxanyl, dithianyl, etc.; W = O,S; Z = bond, CH2] were prepd. as herbicides. 4,2-Me(H2NSO2)C6H3CO2Me (3.5 g) was photochem. brominated with NBS to give 4.7 g of the 4-(bromomethyl) deriv.
which (1.4 g) was treated with KCN to give 0.26 g of the 4-(cyanomethyl) deriv. The latter (0.12 g) was stirred in MeCN with Ph (4-methoxy-6-methyl-2-pyrimidinyl)carbamate in the presence of DBU to give
0.16 g pyrimidinylurea II. In postemergence tests 0.05 kg II/ha gave complete control of, e.g., morning glory and velvetleaf. Examples of application formulations are given.
ACCESSION NUMBER: 1987:213967 CAPLUS
DOCUMENT NUMBER: 106:213967
TITLE: Herbicidal heterocyclyl(phenylsulfonyl)ureas
INVENTOR(S): Artz, Steven Powell
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 127 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 205348	A2	19861217	EP 1986-304470	19860611
EP 205348	A3	19870624		
EP 205348	B1	19910925		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4678498	A	19870707	US 1986-860229	19860512
CA 1236459	A1	19880510	CA 1986-510939	19860605
AU 8658599	A1	19861218	AU 1986-58599	19860612
AU 592091	B2	19900104		
JP 62016457	A2	19870124	JP 1986-135093	19860612
US 4786314	A	19881122	US 1987-108646	19871015
US 4678498	B1	19890124	US 1988-90001562	19880624

L4 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)
US 4889550 A 19891226 US 1988-239219 19880901
PRIORITY APPLN. INFO.: US 1985-743955 19850612
US 1986-860229 19860512
US 1987-41790 19870423
US 1987-108646 19871015
OTHER SOURCE(S): CASREACT 106:213967
IT **108356-21-4P 108356-22-5P 108356-23-6P**
108356-24-7P 108356-25-8P 108356-26-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 108356-21-4 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)

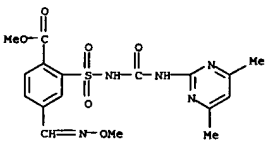


RN 108356-22-5 CAPLUS
CN Benzoic acid, 4-[(methoxyimino)methyl]-2-[[[[(4-methoxy-6-methyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

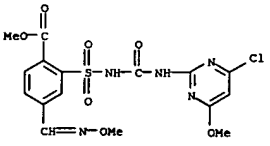


RN 108356-23-6 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)

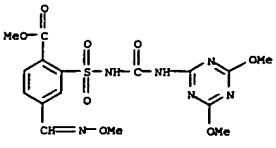
L4 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 108356-24-7 CAPLUS
CN Benzoic acid, 2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)

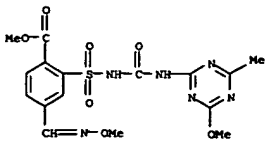


RN 108356-25-8 CAPLUS
CN Benzoic acid, 2-[[[[(4,6-dimethoxy-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-4-[(methoxyimino)methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 108356-26-9 CAPLUS
CN Benzoic acid, 4-[(methoxyimino)methyl]-2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



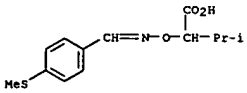
L4 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB R1R2C:NOCHRCOX [I; R = C2-4 alkyl; R1 = H, Cl-6 alkyl; R2 = alkyl, alkenyl, (substituted) Ph; X = halo, OH, OR3, OM; R3 = alkyl, alkoxyalkyl; M = alkali metal, alk. earth metal, NH4+, Ag+], useful as herbicides and plant growth regulators, are prepd. by treating a metal oxime salt with a 2-haloalkanoate ester. Thus, 9.75 g Me2CHCHBrCO2Et and 3-F3CC6H4CMe:NO-Na+, obtained by refluxing 2.0 g NaOH with 10.16 g oxime, were refluxed for 3 days in PhMe to give 7.33 g I (R = Me2CH; R1 = Me; R2 = 3-F3CC6H4; X = OEt). In preemergence tests against garden cress, I proved effective as a 0.025% spray soln.

ACCESSION NUMBER: 1987:4670 CAPLUS
DOCUMENT NUMBER: 106:4670
TITLE: .alpha.-(Benzylideneaminooxy)alkanoic acids and esters
INVENTOR(S): Sanborn, James Russell; Tieman, Charles Henry
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

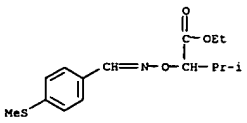
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 182407	A1	19860528	EP 1985-201699	19851015
EP 182407	B1	19900516		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 52765	E	19900615	AT 1985-201699	19851015
BR 8505119	A	19860729	BR 1985-5119	19851016
PRIORITY APPLN. INFO.:			US 1984-662117	19841018
			EP 1985-201699	19851015

IT 104367-75-1P 104403-16-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide and plant growth regulator)
RN 104367-75-1 CAPLUS
CN Butanoic acid, 3-methyl-2-[[[[4-(methylthio)phenyl]methylene]amino]oxy]-(9CI) (CA INDEX NAME)



RN 104403-16-9 CAPLUS
CN Butanoic acid, 3-methyl-2-[[[[4-(methylthio)phenyl]methylene]amino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2003 ACS
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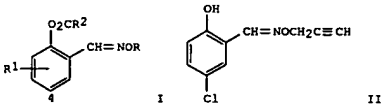


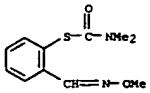
AB Salicylaldehyde oxime derivs. I (R = C2-4 alkyl, HC.tplbond.CCH2, cyclopropylmethyl; R1 = F, 4-Cl; R2 = C1-6 alkyl optionally substituted with Cl, NO2) and related unclaimed derivs. were prepd. as nematocides (75 examples). Thus, N-hydroxyphthalimide was alkylated by HC.tplbond.CCH2Br, and the resulting N-(2-propynyloxy)phthalimide hydrolyzed to give HC.tplbond.CCH2ONH2.HCl. Oximation of 5-chlorosalicylaldehyde by the latter gave chlorosalicylaldehyde oxime II, which was acetylated by Ac2O-NaOAc to give I (R = HC.tplbond.CCH2; R1 = 4-Cl; R2 = Me) (III). Soil treatment with 25 ppm III gave complete control of Meloidogyne incognita infestation of tomato seedlings.

ACCESSION NUMBER: 1986:478654 CAPLUS
DOCUMENT NUMBER: 105:78654
TITLE: Nematicidal salicylaldehyde derivatives
INVENTOR(S): Peake, Clinton J.; DiSanzo, Carmine P.; Engel, John F.
PATENT ASSIGNEE(S): FMC Corp. , USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 273,899, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4584318	A	19860422	US 1983-505606	19830620
PRIORITY APPLN. INFO.:			US 1981-273899	19810615
OTHER SOURCE(S):		CASREACT 105:78654		

IT 103743-45-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and nematocidal activity of)
RN 103743-45-9 CAPLUS
CN Carbamothioic acid, dimethyl-, S-[2-[(methoxyimino)methyl]phenyl] ester (9CI) (CA INDEX NAME)

L4 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2003 ACS
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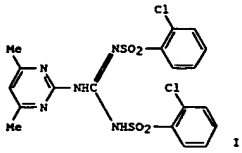


I

AB Herbicidal plant growth inhibiting (no data) RR1NC(:NR2)NHR3 [R = H, R4S(O)n, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl; R1 = H, OH, Me3Si, R4S(O)n, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, aryl, heterocyclyl, amino; RR1N = heterocyclyl; R2 = H, R4S(O)n; R3 = halo, cyano, HCO, (un)substituted alkyl, alkoxy, heterocyclyl, amino; R4 = (un)substituted alkyl, aryl, heteroaryl; n = 0-2] and their tautomers and salts were prepd. Thus, 4,6-dimethylpyrimidine was condensed with Na2NCN to give 2-(cyanoamino)-4,6-dimethylpyrimidine. This was treated with MeONH2.HCl to give N-(4,6-dimethyl-2-pyrimidinyl)-N'-methoxyguanidine. This was acylated with 2-ClC6H4SO2Cl to give diacylated guanidine I.

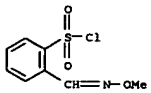
ACCESSION NUMBER: 1985:95661 CAPLUS
DOCUMENT NUMBER: 102:95661
TITLE: Guanidine derivatives
INVENTOR(S): Moriya, Koichi; Pfister, Theodor; Riebel, Jochem; Eue,
Ludwig; Schmidt, Robert R.; Luerssen, Klaus
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 134 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3334455	A1	19840906	DE 1983-3334455	19830923
AU 8424259	A1	19840906	AU 1984-24259	19840208
AU 561585	B2	19870514		
US 4602938	A	19860729	US 1984-578345	19840209
EP 121082	A1	19841010	EP 1984-101910	19840223
EP 121082	B1	19891108		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 47845	E	19891115	AT 1984-101910	19840223
BR 8400887	A	19841009	BR 1984-887	19840227
DK 8401484	A	19840905	DK 1984-1484	19840229
JP 59167570	A2	19840921	JP 1984-37415	19840301
DD 223055	A5	19850605	DD 1984-260469	19840301
DD 229691	A5	19851113	DD 1984-277164	19840301
IL 71118	A1	19870916	IL 1984-71118	19840301
ES 530263	A1	19841101	ES 1984-530263	19840302
HU 34324	A2	19850328	HU 1984-854	19840302
HU 198611	B	19891128		

L4 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

ZA 8401585	A	19850626	ZA 1984-1585	19840302
CA 1233180	A1	19880223	CA 1984-448787	19840302
US 4721785	A	19880126	US 1986-853822	19860418
US 4725305	A	19880216	US 1986-931368	19861114
US 4725303	A	19880216	US 1986-931380	19861114
US 4797484	A	19890110	US 1987-5800	19870116
US 4743294	A	19880510	US 1987-41260	19870422
US 4880932	A	19891114	US 1987-44083	19870429
US 4844730	A	19890704	US 1988-224973	19880727
PRIORITY APPLN. INFO.:			DE 1983-3307679	19830304
			DE 1983-3334455	19830923
			US 1984-578345	19840209
			EP 1984-101910	19840223
			DE 1984-3431924	19840830
			DE 1984-3431925	19840830
			DE 1985-3517821	19850517
			DE 1985-3517842	19850517
			US 1985-769222	19850823
			US 1985-769271	19850823
			US 1986-853822	19860418
			US 1987-44083	19870429

OTHER SOURCE(S): CASREACT 102:95661
IT **94808-27-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and sulfonylation by, of guanidine derivs.)
RN 94808-27-2 CAPLUS
CN Benzenesulfonyl chloride, 2-[(methoxyimino)methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2003 ACS
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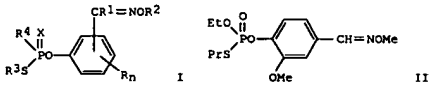


I II

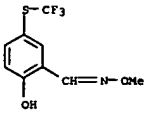
AB Title compds. I (X = O, S; R = halo, NO2, cyano, alkyl, alkoxy, alkylthio, haloalkyl, -alkoxy, or -alkylthio; R1 = H, alkyl; R2, R3 = alkyl; R4 = alkyl, alkoxy, aryl; n = 0-2) were prepd. and shown to have acaricidal and nematocidal activity. Thus, 4-F3CC6H4OH was formylated with urotropine-HF, treated with MeONH2, and phosphorylated with PrS(EtO)POCl to give the ester II.

ACCESSION NUMBER: 1984:630771 CAPLUS
DOCUMENT NUMBER: 101:230771
TITLE: Substituted oxime ethers
INVENTOR(S): Krueger, Bernd Wieland; Kysela, Ernst; Stetter, Joerg;
Becker, Benedikt; Homeyer, Bernhard; Stendel, Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 39 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3304203	A1	19840809	DE 1983-3304203	19830208
EP 115828	A1	19840815	EP 1984-100853	19840127
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
AU 8424065	A1	19840816	AU 1984-24065	19840203
JP 59148793	A2	19840825	JP 1984-18499	19840206
DK 8400542	A	19840809	DK 1984-542	19840207
ZA 8400891	A	19840926	ZA 1984-891	19840207
ES 529520	A1	19841116	ES 1984-529520	19840207
PRIORITY APPLN. INFO.:			DE 1983-3304203	19830208

OTHER SOURCE(S): CASREACT 101:230771
IT **93249-68-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and phosphorylation of)
RN 93249-68-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-5-[(trifluoromethyl)thio]-, O-methyloxime (9CI) (CA INDEX NAME)

L4 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2003 ACS
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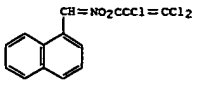
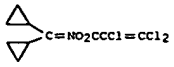


II



III

AB C12C:CC1CO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g C12C:CC1COCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58 g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

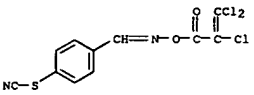
ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 112524	A1	19840704	EP 1983-112276	19831207
EP 112524	B1	19860528		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 59110665	A2	19840626	JP 1982-220165	19821217
US 4581365	A	19860408	US 1983-557688	19831202
IL 70443	A1	19870130	IL 1983-70443	19831214
BR 8306913	A	19840724	BR 1983-6913	19831215
ZA 8309329	A	19840829	ZA 1983-9329	19831215
DK 8305810	A	19840618	DK 1983-5810	19831216
AU 8322504	A1	19840621	AU 1983-22504	19831219

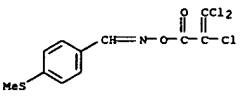
PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740

IT 93033-41-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and fungicidal activity of)
RN 93033-41-1 CAPLUS
CN Thiocyanic acid, 4-[[[(2,3,3-trichloro-1-oxo-2-propenyl)oxy]imino]methyl]phenyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 93033-18-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-18-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



L4 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2003 ACS
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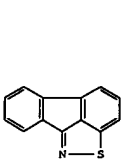
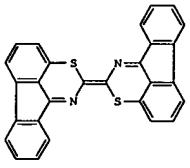


I



II

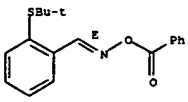
AB Some of the factors influencing the prepn. of 1,2-benzisothiazoles from 2-(alkylthio)phenyl-substituted oximes are discussed. Good yields of 3-aryl-1,2-benzisothiazoles may be obtained from readily available precursors. Reaction takes place under particularly mild conditions when a tert-butylthio function is situated anti to the leaving group at oxime-nitrogen and S-N overlap is not restricted by ring-strain in the transition-state. The corresponding N-methylhydroxamic acid derivs. give good yields of 2-methyl-1,2-benzisothiazol-3(2H)-one only when a tert-butylthio substituent is present. The ethylthio and isopropylthio analogs give the vinyl thioethers, while the methylthio derivs. undergo a novel rearrangement to "Pummerer" esters. The prepn. of the fluorenothiazole I and bi(fluorenothiazine) II is described.

ACCESSION NUMBER: 1982:438872 CAPLUS
DOCUMENT NUMBER: 97:38872
TITLE: Thermal fission of hydroxylamine derivatives with neighboring-group-participation by thioether functions: preparation of 1,2-benzisothiazoles
AUTHOR(S): Lawson, Alexander J.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
SOURCE: Phosphorus and Sulfur and the Related Elements (1982),
12(3), 357-67
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:38872

IT 82070-26-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and thermal cyclization of, benzisothiazole deriv. from)
RN 82070-26-6 CAPLUS
CN Benzaldehyde, 2-[(1,1-dimethylethyl)thio]-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

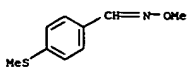
L4 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2003 ACS

AB IR intensities of the Me group CH band, 1H and 13C NMR chem. shifts, and 13CH coupling consts. (J) were detd. for 4-RC6H4MMe (I; R = NH2, MeO, Me, H, halo, MeS, MeCO, NO2; M= CO, SO, SO2, O, S, CH:NO). Each quantity was
a sensitive measure of the local electron d. distribution around the Me group, but only J yielded a quant. evaluation of the transmission coeffs. of the CO, O, S, and Se bridges. In I (M = SO, SO2) the effect of R on the spectral properties of the Me group were appreciable in a CD3CN solvent but were not significant in CCl4.

ACCESSION NUMBER: 1981:514554 CAPLUS
DOCUMENT NUMBER: 95:114554
TITLE: IR and NMR spectroscopic study of the transfer of the effect of substituents to the methyl group in 4-RC6H4MCH3 systems containing M = CO, SO, SO2, O, S, CH:NO heterobridges
AUTHOR(S): Tupitsyn, I. F.; Zatsepina, N. N.; Kolodina, N. S.
CORPORATE SOURCE: Gos. Inst. Prikl. Khim., Leningrad, USSR
SOURCE: Zhurnal Obshchei Khimii (1981), 51(4), 918-27
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 78728-58-2
RL: PRP (Properties)
(IR spectrum of)
RN 78728-58-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-methyloxime (9CI) (CA INDEX NAME)



L4 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2003 ACS
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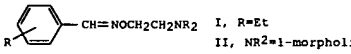
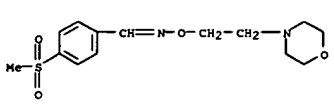


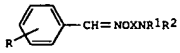
I, R=Et
II, NR2=1-morpholinyl

AB Twenty-one substituted benzaldoximes, 11 I and 10 II (R = NO2, halide, Ph,
Me, iso-Pr, or MeSO2), were examd. for a structure-analgesic activity relationship, using the phenylbenzoquinone-writhing test in mice and the Hansch equation (1969). A correlation was obsd. between analgesic activity and the hydrophobic parameter .pi., the electronic parameter F, and the stearic parameter Es. The greatest activity was obsd. with high F
and .pi. values and when stearic hinderance of the 2 or 3 position of the arom. ring was minimal.

ACCESSION NUMBER: 1977:83518 CAPLUS
DOCUMENT NUMBER: 86:83518
TITLE: O-Aminoalkylbenzaldoximes. II. Quantitative structure-analgesic activity correlations
AUTHOR(S): Bernhart, Claude; Wermuth, Camille G.
CORPORATE SOURCE: Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr.
SOURCE: European Journal of Medicinal Chemistry (1976), 11(4),
378-80
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: French
IT 61819-98-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(analgesic activity of)
RN 61819-98-5 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime (9CI) (CA INDEX NAME)



L4 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI

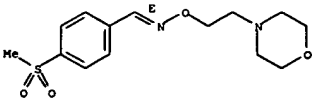


I

AB Thirty O-substituted benzaldoximes I, and 10 of their isomeric or isosteric analogs, were prepd. and examd. for analgesic activity. O-(2-N,N-diethylaminoethyl)-4-chlorobenzaldoxime-HCl (I-HCl, R = p-Cl, R1=R2 = Et, X = CH2CH2) [61733-99-1], orally, was the most effective in the Randall and Selitto (1957) (ED50 = 16 mg/kg) and Cheymol et al. (1959)
(ED50 = 32 mg/kg) tests. Almost all compds. tested had analgesic activity
with the greatest effect occurring when R was an electrophilic para substituent and X = CH2CH2.

ACCESSION NUMBER: 1977:83517 CAPLUS
DOCUMENT NUMBER: 86:83517
TITLE: O-Aminoalkylbenzaldoximes. I. Synthesis, structure and pharmacological properties
AUTHOR(S): Bernhart, Claude; Wermuth, Camille G.; Cahn, Jean; Herold, Monique; Borzeix, Marie G.
CORPORATE SOURCE: Fac. Pharm., Univ. Louis-Pasteur, Strasbourg, Fr.
SOURCE: European Journal of Medicinal Chemistry (1976), 11(4),
369-77
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: French
IT 61734-16-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as analgesic)
RN 61734-16-5 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime, monohydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

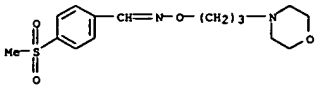


● HCl

L4 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB About 40 benzaldoximes [I; Rn = H, halo, Me, NO2, 2,4-(NO2)2, OH, 3,4-(OH)2, etc.; R1 = H, Me; R2 = Et; or NR22 = heterocyclyl; Q = (CH2)2, (CH2)3, CH2C:CCH2], with analgesic activity in mice and rats, were prepd. (as salts, e.g., hydrochlorides, acid oxalates, fumarates) from RnC6H5-nCR1:NOH. Thus, a mixt. of m-O2NC6H4CH:NOH and 1-chloro-2-morpholinoethane in alc. contg. NaOMe was heated at reflux for 6 hr and the product acidified with HCl to give I.HCl [Rn = m-NO2, R1 = H, Q = (CH2)2, NR22 = morpholino]. Mannich reaction of p-O2NC6H4-CH:NOCH2C.tplbond.CH, prepd. from the .omicron.-unsubstituted oxime, with morpholine and HCHO gave I (Rn = p-NO2, R1 = H, Q = CH2C.tplbond.CCH2, NR22 = morpholino). Two naphthalene analogs of I were similarly prepd.
ACCESSION NUMBER: 1974:477675 CAPLUS
DOCUMENT NUMBER: 81:77675
TITLE: Substituted benzaldoximes
INVENTOR(S): Cahn, Jean; Wermuth, Camille G.
PATENT ASSIGNEE(S): Choay S. A.
SOURCE: Can., 33 pp.
CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 943959	A1	19740319	CA 1971-104441	19710204

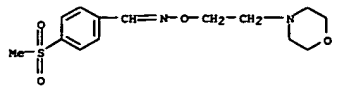
PRIORITY APPLN. INFO.: CA 1971-104441 19710204
IT **31856-56-1P 31856-74-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 31856-56-1 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[3-(4-morpholinyl)propyl]oxime, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 31856-74-3 CAPLUS
CN Benzaldehyde, 4-(methylsulfonyl)-, O-[2-(4-morpholinyl)ethyl]oxime, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2003 ACS (Continued)

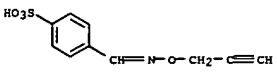


● HCl

L4 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2003 ACS
AB A new class of brightening agents have been suggested for Watts-type solns. In addn. to the usual antipitting, stress-relieving agents, the bath contains a carrier brightener, for example a sulfonate or a sulfonamide and a mixt. of primary brighteners such as butyraldehyde/nicotinamide or isonicotinamide. A typical soln. comprises NiSO4.6H2O 44, NiCl26H2O 12, boric acid 7, fluorinated depitter 5 ml., butyraldehyde 0.02, chloral hydrate 0.10, Na 1,5-naphthalenedisulfonate 4, nicotinamide 0.01, saccharin 0.16, ethylenediaminetetraacetate 0.02 oz./gal. The bath is operated at 125-135.degree.F., pH 3.8-4.5, cathode c.d. 30-80 amp./ft.2 and anode e.d. 10-30 amp./ft.2 The soln. is agitated with air.
ACCESSION NUMBER: 1966:471143 CAPLUS
DOCUMENT NUMBER: 65:71143
ORIGINAL REFERENCE NO.: 65:13224d-f
TITLE: Electroplating bright nickel
INVENTOR(S): Taylor, Frank
PATENT ASSIGNEE(S): Howard Wall Ltd.
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1037617		19660727	GB	19640430

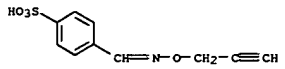
IT **13410-42-9**, Benzenesulfonic acid, p-formyl-, O-2-propynyloxime
(Ni electrodeposition from baths contg.)
RN 13410-42-9 CAPLUS
CN Benzenesulfonic acid, p-formyl-, O-2-propynyloxime (7CI, 8CI) (CA INDEX NAME)



L4 ANSWER 33 OF 33 CAPLUS COPYRIGHT 2003 ACS
AB An acid galvanic Ni bath to deposit high gloss, smooth, ductile coatings contains 0.01-10 g./l. of one or more different types of oximes in which the H atom has been substituted by a radical having at least one double or triple C-C bond.
ACCESSION NUMBER: 1966:471142 CAPLUS
DOCUMENT NUMBER: 65:71142
ORIGINAL REFERENCE NO.: 65:13224d
TITLE: Acid galvanic nickel bath
INVENTOR(S): Hoeltgen, Rolf
PATENT ASSIGNEE(S): Langbein-Pfanhauser Werke A.-G.
SOURCE: 2 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1220225		19660630	DE	19600425

IT **13410-42-9**, Benzenesulfonic acid, p-formyl-, O-2-propynyloxime
(Ni electrodeposition from baths contg.)
RN 13410-42-9 CAPLUS
CN Benzenesulfonic acid, p-formyl-, O-2-propynyloxime (7CI, 8CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	151.36	300.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-21.48	-21.48

FILE 'REGISTRY' ENTERED AT 19:31:52 ON 22 MAR 2003

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 MAR 2003 HIGHEST RN 500256-84-8
DICTIONARY FILE UPDATES: 21 MAR 2003 HIGHEST RN 500256-84-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

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100.0% PROCESSED     924 ITERATIONS                          3 ANSWERS
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                        BATCH   **COMPLETE**
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PROJECTED ANSWERS:               3 TO      163

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=> s l5 full
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SEARCH TIME: 00.00.01

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=> fil caplus
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                                                 ENTRY    SESSION
FULL ESTIMATED COST                              148.55     449.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00     -21.48

FILE 'CAPLUS' ENTERED AT 19:33:03 ON 22 MAR 2003
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L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) (R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

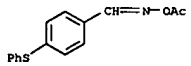
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2802528	A1	20010622	FR 2000-16306	20001214
NL 1016815	A1	20010618	NL 2000-1016815	20001206
NL 1016815	C2	20020514		
GB 2358017	A1	20010711	GB 2000-29793	20001207
GB 2358017	B2	20020313		
SE 2000004564	A	20020612	SE 2000-4564	20001211
US 2001012596	A1	20010809	US 2000-734625	20001212
JP 2001233842	A2	20010828	JP 2000-377671	20001212
FI 2000002730	A	20010616	FI 2000-2730	20001213
DE 10061947	A1	20010621	DE 2000-10061947	20001213
ES 2177438	A1	20021201	ES 2000-2977	20001213
DK 200001878	A5	20010616	DK 2000-1878	20001214
BE 1013872	A5	20021105	BE 2000-789	20001214
CN 1299812	A	20010620	CN 2000-135980	20001215
BR 2000006379	A	20010724	BR 2000-6379	20001215

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

IT **362624-48-4P 362624-51-9P 362624-59-7P 362624-60-0P 362624-61-1P 362624-62-2P 362624-63-3P 362624-64-4P 362624-65-5P 362624-66-6P 362624-67-7P 362624-68-8P 362624-73-5P 362624-84-8P 362624-85-9P 362624-87-1P 362624-88-2P 362624-89-3P 362624-94-0P 362624-96-2P 362625-00-1P 362625-01-2P**

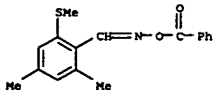
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-48-4 CAPLUS
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

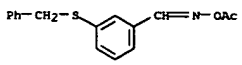


L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)

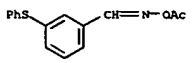
RN 362624-51-9 CAPLUS
CN Benzaldehyde, 2,4-dimethyl-6-(methylthio)-, O-benzoyloxime (9CI) (CA INDEX NAME)



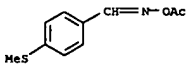
RN 362624-59-7 CAPLUS
CN Benzaldehyde, 3-[(phenylmethyl)thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



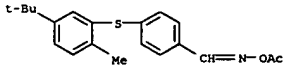
RN 362624-60-0 CAPLUS
CN Benzaldehyde, 3-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-61-1 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

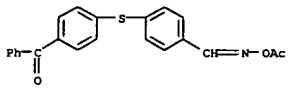


RN 362624-62-2 CAPLUS
CN Benzaldehyde, 4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

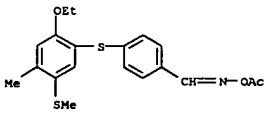


RN 362624-63-3 CAPLUS
CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime) (9CI) (CA

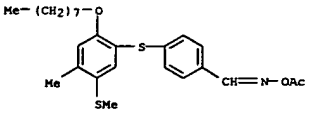
L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)



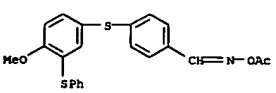
RN 362624-64-4 CAPLUS
CN Benzaldehyde, 4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-65-5 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

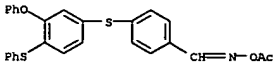


RN 362624-66-6 CAPLUS
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

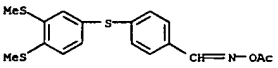


RN 362624-67-7 CAPLUS
CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)

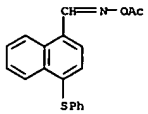
L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)



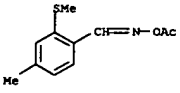
RN 362624-68-8 CAPLUS
CN Benzaldehyde, 4-[[3,4-bis(methylthio)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



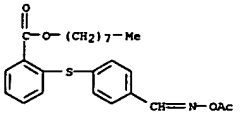
RN 362624-73-5 CAPLUS
CN 1-Naphthalenecarboxaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-84-8 CAPLUS
CN Benzaldehyde, 4-methyl-2-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

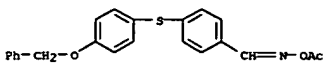


RN 362624-85-9 CAPLUS
CN Benzoic acid, 2-[[4-[[(acetyloxy)imino]methyl]phenyl]thio]-, octyl ester (9CI) (CA INDEX NAME)

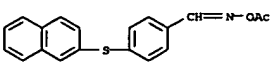


L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)

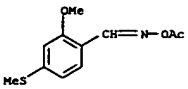
RN 362624-87-1 CAPLUS
CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-, O-acetyloxime (9CI) (CA INDEX NAME)



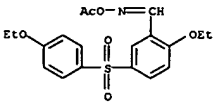
RN 362624-88-2 CAPLUS
CN Benzaldehyde, 4-(2-naphthalenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-89-3 CAPLUS
CN Benzaldehyde, 2-methoxy-4-(methylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)

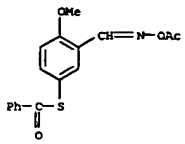


RN 362624-94-0 CAPLUS
CN Benzaldehyde, 2-ethoxy-5-[(4-ethoxyphenyl)sulfonyl]-, O-acetyloxime (9CI) (CA INDEX NAME)

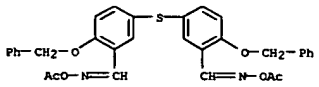


RN 362624-96-2 CAPLUS
CN Benzenecarbothioic acid, S-[3-[[[acetyloxy]imino]methyl]-4-methoxyphenyl] ester (9CI) (CA INDEX NAME)

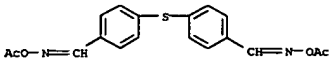
L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)



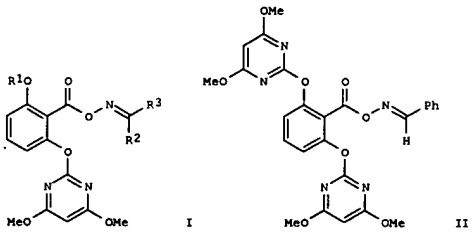
RN 362625-00-1 CAPLUS
CN Benzaldehyde, 3,3'-thiobis[6-(phenylmethoxy)-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



RN 362625-01-2 CAPLUS
CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
GI



AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, CCR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

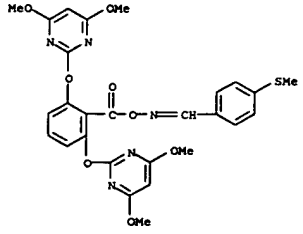
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 658549	A1	19950621	EP 1994-117857	19941111
EP 658549	B1	20010523		
R: CH, DE, FR, GB, LI, NL				
KR 9701480	B1	19970206	KR 1993-24099	19931113
KR 120271	B1	19971104	KR 1993-30055	19931227
KR 120270	B1	19971104	KR 1993-31016	19931229
US 5521146	A	19960528	US 1994-339249	19941110
BR 9404436	A	19951017	BR 1994-4436	19941111
CN 1111623	A	19951115	CN 1994-117926	19941111
CN 1043885	B	19990630		
AU 9478812	A1	19950608	AU 1994-78812	19941114
AU 673629	B2	19961114		
JP 07196629	A2	19950801	JP 1994-279506	19941114
JP 2517215	B2	19960724		

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229

OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208

IT 168088-53-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)

RN 168088-53-7 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
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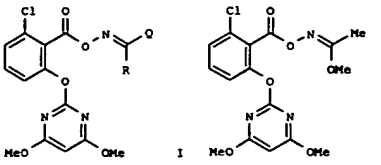


AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [[2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

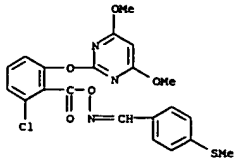
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608862	A1	19940803	EP 1994-101132	19940126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
KR 9603323	B1	19960308	KR 1993-1017	19930127
KR 9612180	B1	19960916	KR 1993-10097	19930604
KR 9612179	B1	19960916	KR 1993-10098	19930604
KR 9612181	B1	19960916	KR 1993-10099	19930604
KR 9612194	B1	19960916	KR 1993-10100	19930604
KR 9612195	B1	19960916	KR 1993-10101	19930604
CN 1101345	A	19950412	CN 1994-102665	19940126
US 5494888	A	19960227	US 1994-186589	19940126
BR 9400365	A	19940816	BR 1994-365	19940127
JP 07149735	A2	19950613	JP 1994-7824	19940127
JP 2543665	B2	19961016		

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)

KR 1993-10097	A	19930604
KR 1993-10098	A	19930604
KR 1993-10099	A	19930604
KR 1993-10100	A	19930604
KR 1993-10101	A	19930604

OTHER SOURCE(S): MARPAT 121:205344
IT 157990-23-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-23-3 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
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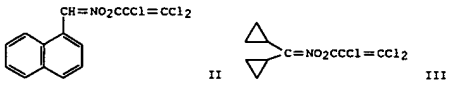


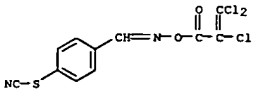
AB Cl2C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g Cl2C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58 g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

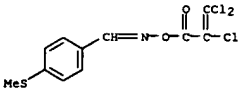
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 112524	A1	19840704	EP 1983-112276	19831207
EP 112524	B1	19860528		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 59110665	A2	19840626	JP 1982-220165	19821217
US 4581365	A	19860408	US 1983-557688	19831202
IL 70443	A1	19870130	IL 1983-70443	19831214
BR 8306913	A	19840724	BR 1983-6913	19831215
ZA 8309329	A	19840829	ZA 1983-9329	19831215
DK 8305810	A	19840618	DK 1983-5810	19831216
AU 8322504	A1	19840621	AU 1983-22504	19831219

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740
IT 93033-41-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and fungicidal activity of)
RN 93033-41-1 CAPLUS
CN Thiocyanic acid, 4-[[[(2,3,3-trichloro-1-oxo-2-propenyl)oxy]imino]methyl]phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 93033-18-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-18-2 CAPLUS
CN Benzaldehyde, 4-(methylthio)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



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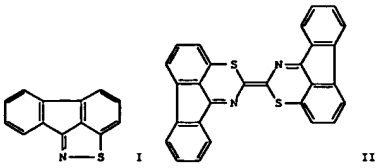
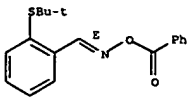


I II

AB Some of the factors influencing the prepn. of 1,2-benzisothiazoles from 2-(alkylthio)phenyl-substituted oximes are discussed. Good yields of 3-aryl-1,2-benzisothiazoles may be obtained from readily available precursors. Reaction takes place under particularly mild conditions when a tert-butylthio function is situated anti to the leaving group at oxime-nitrogen and S-N overlap is not restricted by ring-strain in the transition-state. The corresponding N-methylhydroxamic acid derivs. give good yields of 2-methyl-1,2-benzisothiazol-3(2H)-one only when a tert-butylthio substituent is present. The ethylthio and isopropylthio analogs give the vinyl thioethers, while the methylthio derivs. undergo a novel rearrangement to "Pummerer" esters. The prepn. of the fluorenothiazole I and bi(fluorenothiazine) II is described.

ACCESSION NUMBER: 1982:438872 CAPLUS
DOCUMENT NUMBER: 97:38872
TITLE: Thermal fission of hydroxylamine derivatives with neighboring-group-participation by thioether functions: preparation of 1,2-benzisothiazoles
AUTHOR(S): Lawson, Alexander J.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Fed. Rep. Ger.
SOURCE: Phosphorus and Sulfur and the Related Elements (1982), 12(3), 357-67
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:38872
IT **82070-26-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and thermal cyclization of, benzisothiazole deriv. from)
RN 82070-26-6 CAPLUS
CN Benzaldehyde, 2-[(1,1-dimethylethyl)thio]-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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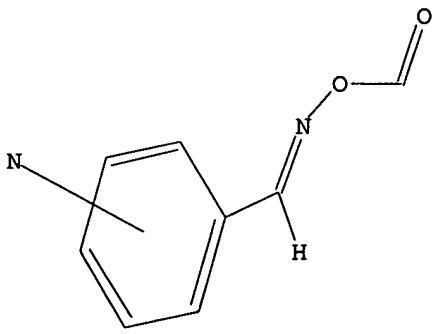


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                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        16657 TO    20303
PROJECTED ANSWERS:             187 TO      773

L10          24 SEA SSS SAM L9

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FULL SCREEN SEARCH COMPLETED -  18196 TO ITERATE

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FILE LAST UPDATED: 21 Mar 2003  (20030321/ED)

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L12 ANSWER 1 OF 81 CAPLUS COPYRIGHT 2003 ACS
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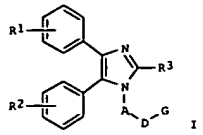
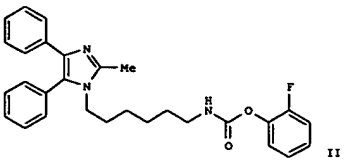


I



II

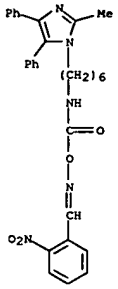
AB Title compds. I [wherein R1 and R2 = independently H, alkyl, or halo; R3 =
(cyclo)alkyl; A = alkylene or L; L = C6H4O-alkylene; D = CO2, CONGl, NHCO2, or NHCO2N:CGl; G = H, haloalkyl, (cyclo)alkyl, pyridyl, or (un)substituted Ph or (CH2)1-2Ph; Gl = H or (halo)alkyl; or AD is optionally interrupted with CHJ, ZC6H4, or Z(CH2)1-3; Z = O or S; J = alkyl or Ph; with provisos] were prepd. as fatty acid amide hydrolase (FAAH) inhibitors. For example, cycloaddn. of benzil with AcONH4 and MeCHO in glacial AcOH gave 2-methyl-4,5-diphenyl-1H-imidazole (29%). Alkylation with Et 7-bromoheptanoate in the presence of NaH in DMF (72%) followed by sapon. with NaOH in EtOH afforded 7-(2-methyl-4,5-diphenylimidazol-1-yl)heptanoic acid. Stepwise addn. of the azide, N3PO(OPh)2, and 2-FC6H4OH to a suspension of the heptanoic acid in TEA and
toluene produced the carbamate II (55%). The latter inhibited recombinant
human FAAH with IC50 < 10 nM. In addn., II gave results similar to known analgesics in the in vivo rat formalin test (acute and chronic chemo-induced pain assay), the Hargreaves test (acute thermal pain assay),
and the Chung model (neuropathic pain assay). Thus, I and their pharmaceutical compns. are useful for the treatment of pain, particularly neuropathic pain, psychomotor disorder, hypertension, cardiovascular disease, eating disorder, nausea, AIDS-related complex, glaucoma, inflammation, psoriasis or multiple sclerosis, and other conditions the treatment of which can be effected by inhibiting FAAH.

ACCESSION NUMBER: 2002:849426 CAPLUS
DOCUMENT NUMBER: 137:353021
TITLE: Preparation of bisarylimidazolyl fatty acid amide hydrolase inhibitors for treatment of pain
INVENTOR(S): Sit, Sing-Yuen; Xie, Kai
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

L12 ANSWER 1 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

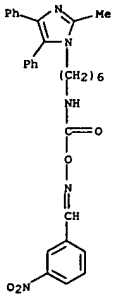
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002087569	A1	20021107	WO 2002-US12853	20020423
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002188009	A1	20021212	US 2002-128480	20020423

PRIORITY APPLN. INFO.: US 2001-286827P P 20010427
OTHER SOURCE(S): MARPAT 137:353021
IT 474430-34-7P, 1-[[[[[[6-(2-Methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxy]imino]methyl]-2-nitrobenzene
474430-35-8P, 1-[[[[[[6-(2-Methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxy]imino]methyl]-3-nitrobenzene
474430-36-9P, 1-[[[[[[6-(2-Methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxy]imino]methyl]-4-nitrobenzene
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(FAAH inhibitor; prepn. of bisarylimidazolyl fatty acid amide inhibitors for treatment of pain and other FAAH-related conditions)
RN 474430-34-7 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[[[6-(2-methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

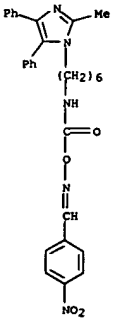


L12 ANSWER 1 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 474430-35-8 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[[6-(2-methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 474430-36-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[6-(2-methyl-4,5-diphenyl-1H-imidazol-1-yl)hexyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

L12 ANSWER 1 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

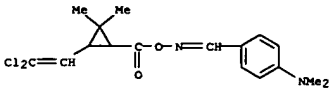
L12 ANSWER 2 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB A series of compds. contg. oxime-ester linkage in place of the ester linkage in pyrethroid ester were designed and prepd. Bioassay data of insecticidal activities of these compds. on Ostrinia nubilalis (H.) and Culex pipiens (L.) are presented. Among them 4-dimethyaminobenzaldehyde oxime ester of 2,2,3,3-tetramethylcyclopropanecarboxylic acid and 4-dimethyamino benzaldehyde oxime ester of cyclopropanecarboxylic acid were found to be potent insecticide against Ostrinia nubilalis (H.). Structure-activity relationship of the compds. is discussed.

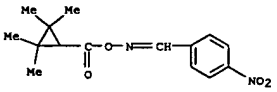
ACCESSION NUMBER: 2002:310814 CAPLUS
DOCUMENT NUMBER: 137:121038
TITLE: Synthesis and insecticidal activities of new pyrethroid acid oxime ester derivatives
AUTHOR(S): Ma, Jun'an; Huang, Runqiu; Chai, Youxin
CORPORATE SOURCE: Institute and State Key Laboratory of Elemento-organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Progress in Natural Science (2002), 12(4), 271-277
CODEN: PNASEA; ISSN: 1002-0071
PUBLISHER: Science in China Press
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 205937-83-3P 246532-24-1P 246532-31-0P
246532-32-1P 246532-33-2P 246532-34-3P
246532-35-4P 246532-36-5P 349450-90-4P
349450-91-5P 349450-92-6P 349450-93-7P
349450-94-8P 349450-95-9P 349450-96-0P
349450-97-1P 349450-98-2P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and insecticidal activities of)

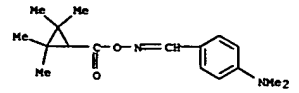
RN 205937-83-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



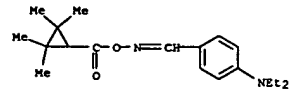
RN 246532-24-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



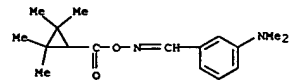
RN 246532-31-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



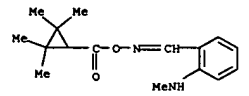
RN 246532-32-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



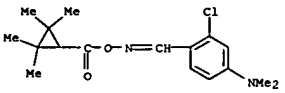
RN 246532-33-2 CAPLUS
CN Benzaldehyde, 3-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



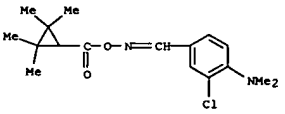
RN 246532-34-3 CAPLUS
CN Benzaldehyde, 2-(methylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



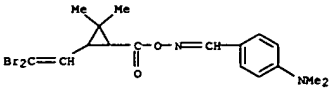
RN 246532-35-4 CAPLUS
CN Benzaldehyde, 2-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



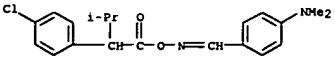
RN 246532-36-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



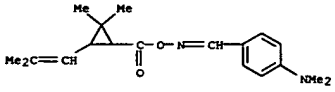
RN 349450-90-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



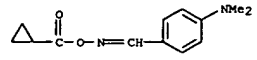
RN 349450-91-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)



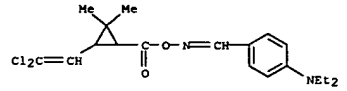
RN 349450-92-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



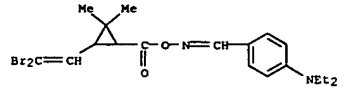
RN 349450-93-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



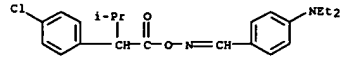
RN 349450-94-8 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 349450-95-9 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

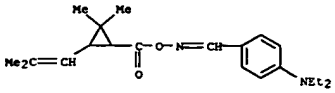


RN 349450-96-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)

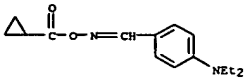


RN 349450-97-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 2 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



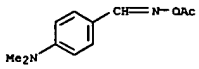
RN 349450-98-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



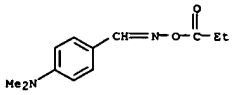
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Fourteen novel title compds. 4-(RCOON:CH)C6H4N(CH3)2 (R = CH3, CH3CH2, ClCH2CH2, ClCH2, CH3CHCl, (CH3)2CH, (CH3)2CHCH2, CH2C(CH3), CH2:CHC(CH3)2CH2, 2,4-Cl2C6H3OCH(CH3), 4-ClC6H4OCH2, 4-(CH3)3CC6H4OCH(CH3), cyclopentyl) were synthesized. The bioassays indicated that title compds. (R = (CH3)2CH, (CH3)2CHCH2, 4-ClC6H4OCH2) possessed good insecticidal activity, compd. showed significant fungicidal activity.

ACCESSION NUMBER: 2002:143944 CAPLUS
DOCUMENT NUMBER: 136:401508
TITLE: Synthesis and bioactivity of substituted benzaldoxime carboxylates. VI. Synthesis and bioactivity of 4-dimethylaminobenzaldoxime carboxylates
AUTHOR(S): Ma, Jun-an; Huang, Run-qiu; Chai, You-xin
CORPORATE SOURCE: State Key Lab. and Institute of Elemento-organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Yingyong Huaxue (2002), 19(2), 176-178
CODEN: YIHUED; ISSN: 1000-0518
PUBLISHER: Yingyong Huaxue Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 136:401508
IT **3986-36-5P 431046-75-2P 431046-76-3P 431046-77-4P 431046-78-5P 431046-79-6P 431046-80-9P 431046-81-0P 431046-82-1P 431046-83-2P 431046-84-3P 431046-85-4P 431046-86-5P 431047-48-2P**
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and bioactivity of substituted 4-dimethylaminobenzaldoxime carboxylates)
RN 3986-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)

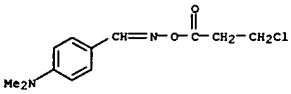


RN 431046-75-2 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(1-oxopropyl)oxime (9CI) (CA INDEX NAME)

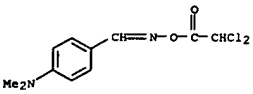


RN 431046-76-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(3-chloro-1-oxopropyl)oxime (9CI) (CA

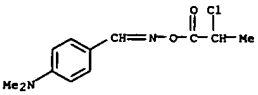
L12 ANSWER 3 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)



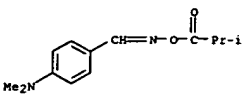
RN 431046-77-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(dichloroacetyl)oxime (9CI) (CA INDEX NAME)



RN 431046-78-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(2-chloro-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

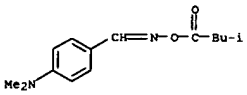


RN 431046-79-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(2-methyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

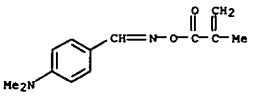


RN 431046-80-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(3-methyl-1-oxobutyl)oxime (9CI) (CA INDEX NAME)

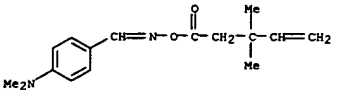
L12 ANSWER 3 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



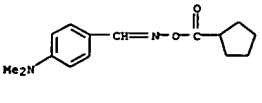
RN 431046-81-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(2-methyl-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



RN 431046-82-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(3,3-dimethyl-1-oxo-4-pentenyl)oxime (9CI) (CA INDEX NAME)

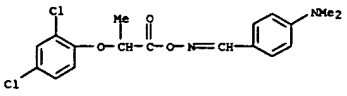


RN 431046-83-2 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(cyclopentylcarbonyl)oxime (9CI) (CA INDEX NAME)

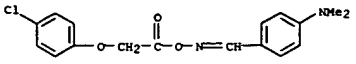


RN 431046-84-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-(2,4-dichlorophenoxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

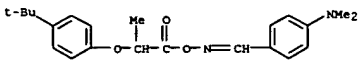
L12 ANSWER 3 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



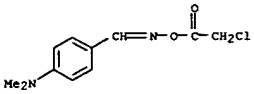
RN 431046-85-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(4-chlorophenoxy)acetyl]oxime (9CI) (CA INDEX NAME)



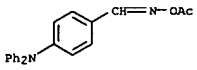
RN 431046-86-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-[4-(1,1-dimethylethyl)phenoxy]-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



RN 431047-48-2 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(chloroacetyl)oxime (9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



L12 ANSWER 4 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) (R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

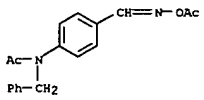
ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2802528	A1	20010622	FR 2000-16306	20001214
NL 1016815	A1	20010618	NL 2000-1016815	20001206
NL 1016815	C2	20020514		
GB 2358017	A1	20010711	GB 2000-29793	20001207
GB 2358017	B2	20020313		
SE 2000004564	A	20020612	SE 2000-4564	20001211
US 2001012596	A1	20010809	US 2000-734625	20001212
JP 2001233842	A2	20010828	JP 2000-377671	20001212
FI 2000002730	A	20010616	FI 2000-2730	20001213
DE 10061947	A1	20010621	DE 2000-10061947	20001213
ES 2177438	A1	20021201	ES 2000-2977	20001213
DK 200001878	A5	20010616	DK 2000-1878	20001214
BE 1013872	A5	20021105	BE 2000-789	20001214
CN 1299812	A	20010620	CN 2000-135980	20001215
BR 2000006379	A	20010724	BR 2000-6379	20001215

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

IT **362624-53-1P 362624-79-1P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-53-1 CAPLUS
CN Acetamide, N-[4-[[(acetyloxy)imino]methyl]phenyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 362624-79-1 CAPLUS
CN Benzaldehyde, 4-(diphenylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)

L12 ANSWER 5 OF 81 CAPLUS COPYRIGHT 2003 ACS

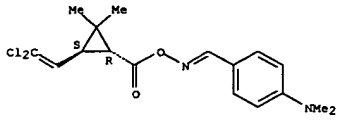
AB Twelve of novel substituted benzaldehyde oxime ester of pyrethroid acids were synthesized, and their insecticidal activities and fungicidal activities were examd.

ACCESSION NUMBER: 2001:276318 CAPLUS
DOCUMENT NUMBER: 135:88602
TITLE: Synthesis and bioactivity of substituted benzaldehyde oxime carboxylate (IV) synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids
AUTHOR(S): Ma, Jun'an; Huang, Runqiu; Feng, Lei; Chai, Youxin
CORPORATE SOURCE: Institute of Elemento-organic Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SOURCE: Nongyaoxue Xuebao (1999), 1(3), 8-13
CODEN: NXOUAS; ISSN: 1008-7303
PUBLISHER: Nongyaoxue Xuebao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 135:88602

IT **349450-99-3 349451-00-9 349451-01-0 349451-02-1**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(synthesis and bioactivity of substituted benzaldehyde oxime carboxylate - synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids)

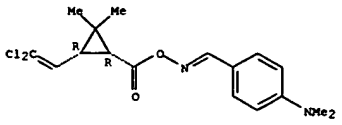
RN 349450-99-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[(1R,3S)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



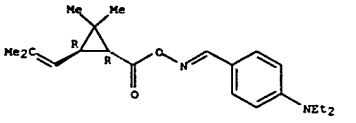
RN 349451-00-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[(1R,3R)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



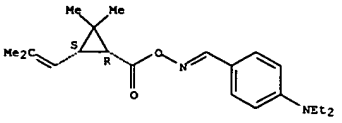
RN 349451-01-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[(1R,3R)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 349451-02-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[(1R,3S)-2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime, rel- (9CI) (CA INDEX NAME)

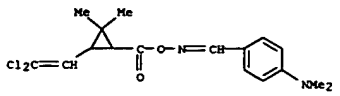
Relative stereochemistry.
Double bond geometry unknown.

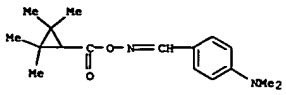


IT **205937-83-3P 246532-31-0P 246532-32-1P**
349450-90-4P 349450-91-5P 349450-92-6P
349450-93-7P 349450-94-8P 349450-95-9P
349450-96-0P 349450-97-1P 349450-98-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and bioactivity of substituted benzaldehyde oxime carboxylate - synthesis and bioactivity of 4-dimethyl(ethyl)amine benzaldehyde oxime ester of pyrethroid acids)

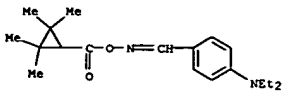
RN 205937-83-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

RN 246532-31-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

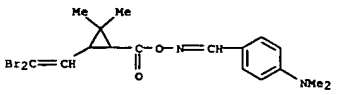




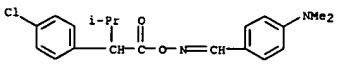
RN 246532-32-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



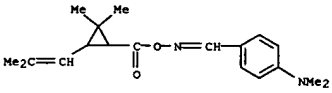
RN 349450-90-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



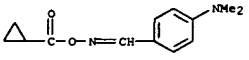
RN 349450-91-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)



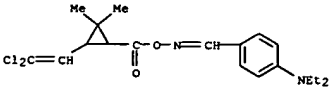
RN 349450-92-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



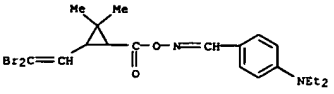
RN 349450-93-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



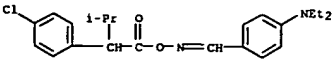
RN 349450-94-8 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



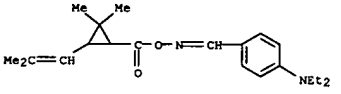
RN 349450-95-9 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



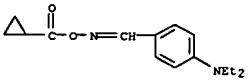
RN 349450-96-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[2-(4-chlorophenyl)-3-methyl-1-oxobutyl]oxime (9CI) (CA INDEX NAME)



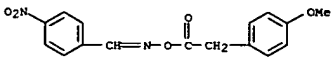
RN 349450-97-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[[2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



RN 349450-98-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)

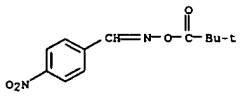


L12 ANSWER 6 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB A new safety catch linker for esters has been synthesized on polystyrene resin. This 2-tert-butoxyphenol resin may be acylated to give a relatively stable ester that will allow nucleophilic chem. without reaction at the linking ester group. Removal of the tert-Bu group with acid unmasks a highly reactive 2-hydroxyphenyl ester that reacts readily with nucleophiles to cause release of the product from the resin. This sequence has been exemplified by acylating the resin with various bromo acids, carrying out nucleophilic displacements with thiols, phenols, or amines, activating the ester with trifluoroacetic acid and cleaving from the resin with amines to give the (nucleophile) substituted carboxamides in high yield and purity. Kinetic studies with a model ester revealed half-lives for reaction with morpholine of 119 h for the tert-butoxyphenyl ester and 1 min for the corresponding phenol.
ACCESSION NUMBER: 2001:172610 CAPLUS
DOCUMENT NUMBER: 134:352969
TITLE: The Preparation of a New "Safety Catch" Ester Linker for Solid-Phase Synthesis
AUTHOR(S): Beech, Claire L.; Coope, John F.; Fairley, Gary; Gilbert, Philip S.; Main, Brian G.; Ple, Karen
CORPORATE SOURCE: AstraZeneca Pharmaceuticals Ltd., Macclesfield Cheshire, SK10 4TG, UK
SOURCE: Journal of Organic Chemistry (2001), 66(7), 2240-2245 CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:352969
IT **339306-03-5DP**, polymer-supported
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(rate of reaction of polymer-supported esters with morpholine)
RN 339306-03-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(4-methoxyphenyl)acetyl]oxime (9CI) (CA INDEX NAME)



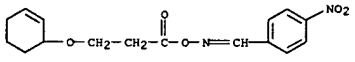
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Photolyses of aldoxime esters, contg. a considerable range of alkyl groups, lead to cleavage of their N-O bonds and formation of aryliminyl and alkyl radicals. The process was found to be favored by 4-methoxyacetophenone as a photosensitizer and by methoxy substituents in the aryl rings. 4-Nitro- and pentafluoro-substitutions of the aryl rings were, on the other hand, deleterious. The intermediate iminyl radicals, together with primary, secondary and tertiary alkyl radicals were characterized by 9 GHz EPR spectroscopy. Cyclopropyl, CF3, and CCl3 radicals were probably also formed, but were too reactive for direct EPR spectroscopic detection. Photosensitized reaction of benzophenone oxime O-nonanoyl ester produced the diphenylmethaniminoxyl, as well as the expected n-octyl and iminyl radicals. This indicated that O-C bond scission accompanied O-N scission for this ketoxime ester. At higher temps. the C-centered radicals added to the starting oxime esters to produce alkoxyaminyl radicals that were also spectroscopically detected in some cases. No evidence for abstraction of the iminyl hydrogen by tert-butoxyl radicals was obtained. Instead, the t-BuO.bul. radicals added to the C:N double bonds of the oxime esters. Similarly, chlorine abstraction from alkylbenzohydroximoyl chlorides by trimethyltin radicals did not take place. Preparative scale expts. with oxime esters contg. suitably unsatd. alkyl groups showed that good yields of cyclised products could be obtained in the presence of the photosensitizer. This process constitutes a general method by which carboxylic acids or acid chlorides can be converted into alkyl radicals and hence to cyclized derivs.
ACCESSION NUMBER: 2000:832599 CAPLUS
DOCUMENT NUMBER: 134:178233
TITLE: Exploitation of aldoxime esters as radical precursors in preparative and EPR spectroscopic roles
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: University of St. Andrews, School of Chemistry, St Andrews, Fife, KY16 9ST, UK
SOURCE: Perkin 2 (2000), (12), 2399-2409 CODEN: PRKTFO; ISSN: 1470-1820
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:178233
IT **326853-02-5P 326853-03-6P**
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(attempted photolysis; preparative and ESR studies of the photolysis of aldoxime esters as radical precursors)
RN 326853-02-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



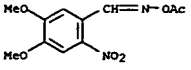
L12 ANSWER 7 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 326853-03-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The synthesis of caged NADP analogs 18, 19, and 20 has been accomplished by utilizing the transglycosidase activity of solubilized NAD glycohydrolase (porcine brain) to incorporate caged nicotinamides 2, 3, and 4 into NADP. The synthesis of several nicotinamides modified at the carboxamide with o-nitrobenzyl photolabile groups is demonstrated as well as their potential for enzymic transglycosidation. These results further demonstrate the feasibility of direct enzymic transglycosidation of sterically hindered substrates into NAD(P), although high nicotinamide analog water soly. was found to be a necessary trait for yield enhancement with certain analogs. Caged analogs were surveyed under aq. conditions for net NADP photorelease, while the UV and fluorescent properties of both analogs and their photobyproducts were assessed for compatibility with systems that rely on optical monitoring of enzyme activity. A highly water-sol. .alpha.-methyl-o-nitrobenzyl group 8 was developed for the synthesis of 20 in order to enhance net NADP photorelease. Compd. 20 demonstrated a high 75% net NADP photoreleased without substantial UV optical blackening or fluorescent byproducts. Analogs 18 and 19 were shown by ESI/MALDI-MS to photogenerate primarily adducts of NADP with deleterious UV and fluorescent properties. Our work stresses the superior release properties conferred by .alpha.-Me substitution on aq. carboxamide photorelease from o-nitrobenzyl compds.
ACCESSION NUMBER: 2000:380207 CAPLUS
DOCUMENT NUMBER: 133:173856
TITLE: Enzymatic Synthesis of Caged NADP Cofactors: Aqueous NADP Photorelease and Optical Properties
AUTHOR(S): Salerno, Charles P.; Magde, Douglas; Patron, Andrew P.
CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, CA, 92093-0506, USA
SOURCE: Journal of Organic Chemistry (2000), 65(13), 3971-3981 CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:173856
IT **288591-59-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(enzymic synthesis of caged NADP cofactors and aq. NADP photorelease and optical properties)
RN 288591-59-3 CAPLUS
CN Benzaldehyde, 4,5-dimethoxy-2-nitro-, O-acetyloxime (9CI) (CA INDEX NAME)

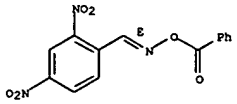


REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS

L12 ANSWER 8 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 9 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The second order rate coeff. k2 for elimination reaction of (E)-2,4-(NO2)2C6H4CH:NO2CC6H4X (X = H, p-MeO, m-Br, p-NO2) to 2,4-(NO2)2C6H4CN + XC6H4CO2- promoted by R2NH [Br(i-Pr)NH, i-Bu2NH, i-Pr2NH, 2,6-DMP] showed excellent correlation with pKa of R2NH on Bronsted plots, with .beta. decreasing as the leaving group is made less basic. Similarly, k2 correlated with the leaving group pKa, with |.beta.lg| decreasing with the stronger base. The results are consistent with an E2 mechanism; the substantial values of .beta. and |.beta.lg| rule
out Elcb.
ACCESSION NUMBER: 1999:655305 CAPLUS
DOCUMENT NUMBER: 132:49664
TITLE: Elimination Reactions of (E)-2,4-Dinitrobenzaldehyde O-Benzoyloximes
AUTHOR(S): Cho, Bong Rae; Chung, Hack Sook; Pyun, Sang Yong
CORPORATE SOURCE: Department of Chemistry and Center for Electro- and Photo-Responsive Molecules, Korea University, Seoul, 136-701, S. Korea
SOURCE: Journal of Organic Chemistry (1999), 64(22), 8375-8378
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **252929-76-3P 252929-77-4P 252929-78-5P 252929-79-6P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(kinetics, mechanism, and transition state structure for elimination reaction of (E)-2,4-dinitrobenzaldehyde O-benzoyloximes)
RN 252929-76-3 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-benzoyloxime, [C(E)]- (9CI) (CA INDEX NAME)

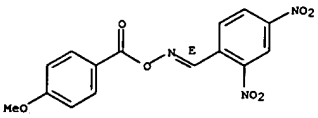
Double bond geometry as shown.



RN 252929-77-4 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(4-methoxybenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

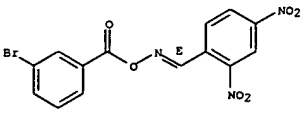
Double bond geometry as shown.

L12 ANSWER 9 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



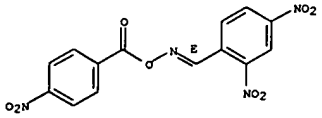
RN 252929-78-5 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(3-bromobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 252929-79-6 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(4-nitrobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

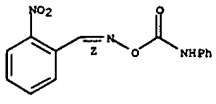
Double bond geometry as shown.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

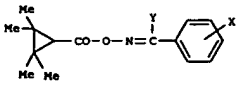
L12 ANSWER 10 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB O-arylcarbamoylated hydroxylamine tosylate reacts with aldehydes at room temp. to give the corresponding O-carbamoylated oximes. The reaction of carbamoylated hydroxylamine with arom. aldehydes in THF or in toluene at reflux affords the corresponding nitriles and anilinium tosylate in high yield. Attempts to cyclize the O-carbamoylated oximes in the presence of AcCl lead again to the formation of nitriles.
ACCESSION NUMBER: 1999:631975 CAPLUS
DOCUMENT NUMBER: 132:3107
TITLE: Direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes
AUTHOR(S): Coskun, Necdet; Arikan, Nevin
CORPORATE SOURCE: Department of Chemistry, Uludag University, Bursa, 16059, Turk.
SOURCE: Tetrahedron (1999), 55(40), 11943-11948
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:3107
IT **250722-20-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes)
RN 250722-20-4 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(phenylamino)carbonyl]oxime, [C(Z)]- (9CI) (CA
INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

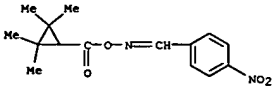
L12 ANSWER 11 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



I

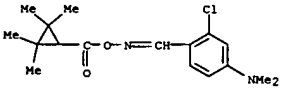
AB Twenty new substituted benzaldehyde oxime tetramethylcyclopropane carboxylates I (X = H, 4-C6H5OC6H4, 4-CH3, 4-(CH3)2CH, 4-(CH3)3C, 4-Cl, 4-NO2, 4-NM2, 2-Cl-4-NMe2, 3,5-Cl2NMe2; Y = H, Cl, CN; etc.) were prepd. and tested as pesticides. The preliminary bioassays indicated that compds. I (X = 4-Me2N, 4-Et2N; Y = H) showed high insecticidal activity.

ACCESSION NUMBER: 1999:532271 CAPLUS
DOCUMENT NUMBER: 131:286241
TITLE: Synthesis and bioactivity of substituted benzaldehyde oxime carboxylates. (III) - Synthesis and bioactivity of substituted benzaldehyde oxime tetramethylcyclopropanecarboxylates
AUTHOR(S): Ma, Jun-An; Huang, Run-Qiu; Chai, You-Xin
CORPORATE SOURCE: Inst. State Key Elemento-organic Chemistry, Nankai Univ., Tianjin, 300071, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(5), 747-749
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT **246532-24-1P 246532-31-0P 246532-32-1P 246532-33-2P 246532-34-3P 246532-35-4P 246532-36-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of O-tetramethylcyclopropanecarbonyl benzoyloximes as pesticides)
RN 246532-24-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

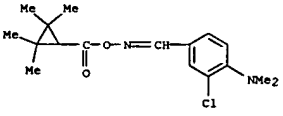


RN 246532-31-0 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

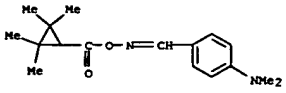
L12 ANSWER 11 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



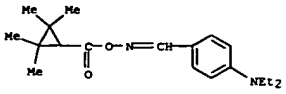
RN 246532-36-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



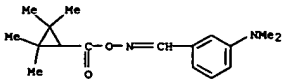
L12 ANSWER 11 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



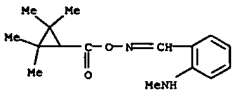
RN 246532-32-1 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 246532-33-2 CAPLUS
CN Benzaldehyde, 3-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 246532-34-3 CAPLUS
CN Benzaldehyde, 2-(methylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)



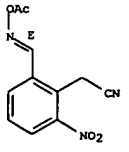
RN 246532-35-4 CAPLUS
CN Benzaldehyde, 2-chloro-4-(dimethylamino)-, O-[(2,2,3,3-tetramethylcyclopropyl)carbonyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 12 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB The N-alkyl- and N-arylisoquinolinium salts reacted with free NH2OH in pyridine to give isoquinoline 2-oxide as final product. The intermediate dioxime 2-HON:CHC6H4CH2CH:NOH (I) was isolated and characterized by derivatization with Ac2O to 2-AcON:CHC6H4CH2CN. From the reaction of I with (CF3CO)2O/Et3N, 3-aminoisoquinoline 2-oxide resulted after hydrolysis. Due to the electronic influence, N-alkylated 5-nitroisoquinolinium salts react faster than the resp. 5-hydroxy derivs., but with the same course of conversion via dioximes to amine oxides. An optimized method for prepn. of the amine oxides was developed.

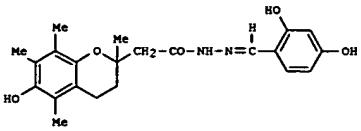
ACCESSION NUMBER: 1999:282639 CAPLUS
DOCUMENT NUMBER: 131:58739
TITLE: Reactions of isoquinolinium salts with hydroxylamine derivatives. 2nd communication. N-Alkyl- and N-aryl-substituted compounds
AUTHOR(S): Mohrle, H.; Niessen, R.
CORPORATE SOURCE: Inst. Pharmazeutische Chem., Heinrich-Heine-Univ., Duesseldorf, D-40225, Germany
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1999), 54(4), 532-540
CODEN: ZNBSEN; ISSN: 0932-0776
PUBLISHER: Verlag der Zeitschrift fuer Naturforschung
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 131:58739
IT **227945-28-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of isoquinoline oxides from reaction of isoquinolinium salts with hydroxylamine)
RN 227945-28-0 CAPLUS
CN Benzeneacetonitrile, 2-[(E)-[(acetyloxy)imino]methyl]-6-nitro- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 13 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



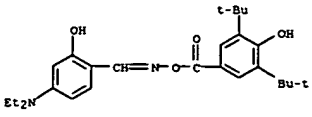
I

AB The title compds. XWY [X = benzene ring, chroman ring, etc.; Y = (un)substituted Ph, etc.; W = CONHN:CH, etc.] are prepd. The title compd.
I in vitro showed IC50 of 4.2 .mu.M against the Maillard reaction.
ACCESSION NUMBER: 1999:253739 CAPLUS
DOCUMENT NUMBER: 130:325088
TITLE: Preparation of acylhydrazone derivatives as Maillard reaction inhibitors and active oxygen scavengers
INVENTOR(S): Inoue, Hitoshi; Horigome, Masato; Kinoshita, Nobuhiro;
Shibayama, Toshie
PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

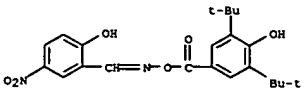
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106371	A2	19990420	JP 1998-177222	19980624

PRIORITY APPLN. INFO.: JP 1997-179754 19970704
OTHER SOURCE(S): MARPAT 130:325088
IT **223723-34-0P 223723-35-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of acylhydrazone derivs. as Maillard reaction inhibitors and active oxygen scavengers)
RN 223723-34-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-2-hydroxy-, O-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 13 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

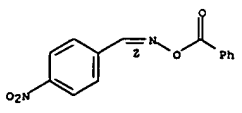


RN 223723-35-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-5-nitro-, O-[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]oxime (9CI) (CA INDEX NAME)



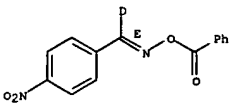
L12 ANSWER 14 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Elimination reactions of (E)- and (Z)-benzaldehyde O-benzoyloximes 1 and 2
with DBU in MeCN have been investigated kinetically. The reactions are second order and exhibit substantial values of Hammett .rho. and kH/kD values, and an E2 mechanism is evident. The rate of elimination from 2 is
approx. 36000 fold faster than that from 1. For reactions of 1 with DBU in MeCN, kH/kD = 3.3 .+-. 0.2, Hammett .rho. value of 2.19 .+-. 0.05, .beta.lg = -0.49 .+-. 0.02, .DELTA.H.thermod. = 10.4 .+-. 0.6 kcal/mol, and .DELTA.S.thermod. = -34.3 .+-. 2.6 eu have been detd. The corresponding values for 2 are kH/kD = 7.3 .+-. 0.2, .rho. = 1.21 .+-. 0.05, .beta.lg = -0.40 .+-. 0.01, .DELTA.H.thermod. = 6.8 .+-. 0.5 kcal/mol, and .DELTA.S.thermod. = -25.8 .+-. 1.9 eu, resp. The results indicate that the anti-eliminations from 2 proceed via more sym. transition states with smaller degrees of proton transfer and N.alpha.-OC(O)Ar bond cleavage, less neg. charge development at the .beta.-carbon, and a greater extent of triple bond formation than that for
the syn-elimination.
ACCESSION NUMBER: 1998:446769 CAPLUS
DOCUMENT NUMBER: 129:135759
TITLE: Elimination Reactions of (E)- and (Z)-Benzaldehyde O-Benzoyloximes. Transition State Differences for the Syn- and Anti-Eliminations Forming Nitriles
AUTHOR(S): Cho, Bong Rae; Chung, Hak Suk; Cho, Nam Soon
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: Journal of Organic Chemistry (1998), 63(14), 4685-4690
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **18322-89-9P 210645-51-5P 210645-52-6P**
210645-53-7P 210645-54-8P 210645-65-1P
210645-66-2P 210645-67-3P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(syn- and anti-elimination transition state differences for nitrile formation from (E)- and (Z)-benzaldehyde O-benzoyloximes)
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



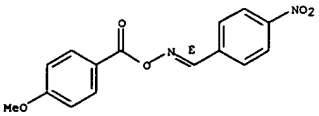
RN 210645-51-5 CAPLUS
CN Benzaldehyde-formyl-d, 4-nitro-, O-benzoyloxime, [C(E)]- (9CI) (CA INDEX NAME)

L12 ANSWER 14 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
Double bond geometry as shown.



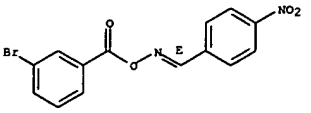
RN 210645-52-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-methoxybenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



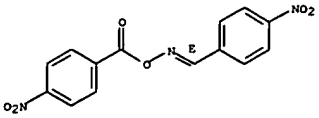
RN 210645-53-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(3-bromobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 210645-54-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-nitrobenzoyl)oxime, [C(E)]- (9CI) (CA INDEX NAME)

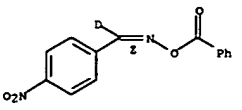
Double bond geometry as shown.



RN 210645-65-1 CAPLUS

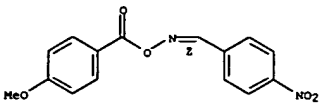
L12 ANSWER 14 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN Benzaldehyde-formyl-d, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



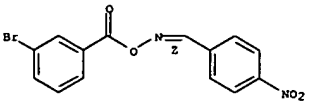
RN 210645-66-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-methoxybenzoyl)oxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



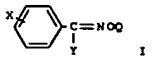
RN 210645-67-3 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(3-bromobenzoyl)oxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

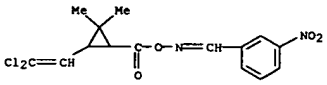


REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

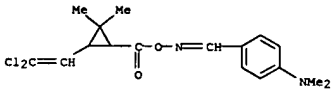
L12 ANSWER 15 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



AB Twenty title pyrethroid oxime-esters I (X = 4-tert-Bu, 3,4-OCH2O, 2,4-Cl2,
3-NO2, 4-NMe2; Y = H, NMe2, NHEt, N(CH2)5, 1,2,4-triazol-1-yl, cyclohexylamino, C6H5NH, NH2, NEt2; Q as shown) were prepd. from t-BuOCl chloronation of I (Q = H; X = above) followed by condensation with QCl in the presence of Et3N. The bioassay indicated that compds. I (X = 4-tert-Bu, 4-NMe2; Y = H; Q as shown) showed antiviral activities and I (X
= 4-Cl; Y = H; Q as shown) showed antibacterial activity.
ACCESSION NUMBER: 1998:207620 CAPLUS
DOCUMENT NUMBER: 128:294898
TITLE: Synthesis and bioactivity of substituted benzaldoxime carboxylate. I. Synthesis and bioactivity of substituted benzaldoxime 3-(2,2-dichloroethenyl)-2,2-dimethyl cyclopropanecarboxylates
AUTHOR(S): Huang, Runqiu; Sun, Jianyu; Ma, Jun'an; Li, Huiying
CORPORATE SOURCE: Inst. Elemento-Organic Chem., Nankai Univ., Tianjin, 300071, Peop. Rep. China
SOURCE: Yingyong Huaxue (1998), 15(1), 9-12
CODEN: YIHUED; ISSN: 1000-0518
PUBLISHER: Yingyong Huaxue Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT **205937-81-1P 205937-83-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and bioactivity of substituted benzaldoxime carboxylate derivs.)
RN 205937-81-1 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)

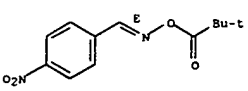


L12 ANSWER 15 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 205937-83-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropyl]carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 16 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Elimination reactions of (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN(aq) have been studied kinetically. The reaction exhibited second order kinetics and general base catalysis with Bronsted .beta.=0.45. The Hammett .rho. value decreased from 2.3 to 1.6 as the base-solvent system was changed from DBU in MeCN to R2NH/R2NH2+ buffer in 70% MeCN(aq). From these results an E2 mechanism is proposed.
ACCESSION NUMBER: 1998:47440 CAPLUS
DOCUMENT NUMBER: 128:167060
TITLE: Mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq)
AUTHOR(S): Cho, Bong Rae; Cho, Nam Soon; Chung, Hak Suk; Son, Ki Nam; Han, Man So; Pyun, Sang Yong
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: Bulletin of the Korean Chemical Society (1997), 18(12), 1301-1304
CODEN: BKCSDE; ISSN: 0253-2964
PUBLISHER: Korean Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **149540-92-1**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); PROC (Process); RACT (Reactant or reagent)
(mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq))
RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA
INDEX NAME)

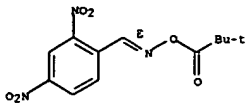
Double bond geometry as shown.



IT **203127-48-4P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(mechanism of elimination from (E)-2,4-dinitrobenzaldehyde O-pivaloyloxime promoted by R2NH/R2NH2+ buffer in 70% MeCN (aq))
RN 203127-48-4 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA INDEX NAME)

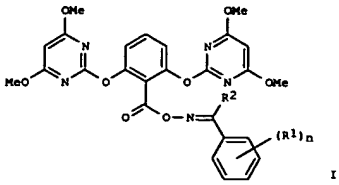
Double bond geometry as shown.

L12 ANSWER 16 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 17 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



I

AB The title compds. I [R1 represents hydrogen, halogen, cyano, nitro, alkyl,
cycloalkyl, alkoxy, alkenyloxy, alkylthio, amino which can be substituted with alkyl, aryl, aryloxy, acyl or acyloxy; n denotes an integer of 1 to 5; and R2 represents hydrogen, halogen, cyano, nitro, alkyl, alkoxy, alkylthio, alkoxycarbonyl, alkenyloxycarbonyl, arylmethoxycarbonyl, heteroarylmethoxy carbonyl, alkylaminocarbonyl, di(alkyl)aminocarbonyl, arylmethylaminocarbonyl, heteroarylmethylaminocarbonyl, or Ph which can be
substituted with R1] are prepd. by reacting 2-(4,6-dimethoxypyrimidin-2-yl)oxy-6-hydroxybenzoic acid oxime ester derivs. with appropriate pyrimidine derivs., e.g., 4,6-dimethoxy-2-alkylsulfonylpyrimidine. Thus, a mixt. of 2-(4,6-dimethoxypyrimidin-2-yl)oxy-6-hydroxybenzoic acid benzophenone oxime ester, potassium carbonate, and 4,6-dimethoxy-2-methylsulfonylpyrimidine in DMF was stirred at 80.degree. to give, after workup, 2,6-di(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid benzophenone oxime ester.

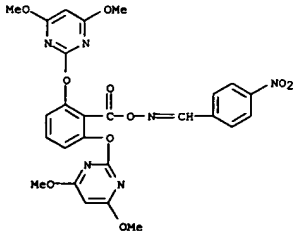
ACCESSION NUMBER: 1997:734617 CAPLUS
DOCUMENT NUMBER: 127:318973
TITLE: Process for preparing 2,6-di(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid oxime ester derivatives as herbicides
INVENTOR(S): Kim, Kun-Tai; Lee, Byoung-Bae; Joe, Goon-Ho; Ahn, Sei-Chang; Kang, Chang-Mo; Lee, Seong-Min; Bae, Jae-Soon; Cho, Jin-Ho; Lee, Sang-Ho; Choi, Nak-Hee; Sa, Jong-Sin
PATENT ASSIGNEE(S): Lg Chemical Ltd., S. Korea
SOURCE: Can. Pat. Appl., 65 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2194080	AA	19970629	CA 1996-2194080	19961227
PRIORITY APPLN. INFO.:			KR 1995-61160	19951228

L12 ANSWER 17 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

	KR 1996-2737	19960205
	KR 1996-43480	19961001

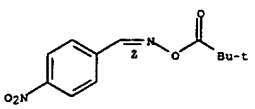
OTHER SOURCE(S): CASREACT 127:318973; MARPAT 127:318973
IT **168088-55-9P**
RL: AGR (Agricultural use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(process for prepg. herbicidal di[(dimethoxypyrimidinyl)oxy]benzoic acid oxime ester derivs.)
RN 168088-55-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 18 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Elimination reactions of (E)- and (Z)-benzaldehyde O-pivaloyloximes 1 and 2 with DBU in MeCN have been investigated kinetically. The reactions are second order and exhibit substantial values of Hammett .rho. and kH/kD values, and an E2 mechanism is evident. The rate of elimination from 2 is
approx. 20 000-fold faster than that from 1. For reactions of 1 with DBU in MeCN, a Hammett .rho. values of 2.4 .+-. 0.1, kH/kD = 2.7 .+-. 0.3, .DELTA.H.thermod. = 12.5 .+-. 0.2 kcal/mol, and .DELTA.S.thermod. = -31.0 .+-. 0.6 eu have been detd. The corresponding values for 2 are .rho. = 1.4 .+-. 0.1, kH/kD = 7.8 .+-. 0.3, .DELTA.H.thermod. = 8.8 .+-. 0.1 kcal/mol, and .DELTA.S.thermod. = -23.6 .+-. 0.4 eu, resp. The results indicate that the nitrile-forming anti eliminations from 2 proceed via a more sym. transition state with a smaller degree of proton transfer, less neg. charge development at the .beta.-carbon, and greater extent of triple-bond formation than that for the syn elimination.

ACCESSION NUMBER: 1997:231039 CAPLUS
DOCUMENT NUMBER: 126:263711
TITLE: Elimination Reactions of (E)- and (Z)-Benzaldehyde O-Pivaloyloximes. Transition-State Differences for the Syn and Anti Eliminations Forming Nitriles
AUTHOR(S): Cho, Bong Rae; Cho, Nam Soon; Lee, Sang Kook
CORPORATE SOURCE: Department of Chemistry, Korea University, Seoul, 136-701, S. Korea
SOURCE: Journal of Organic Chemistry (1997), 62(7), 2230-2233
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **188799-40-8P**
RL: PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PRP (Properties); RCT (Reactant); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(transition-state differences for syn and anti eliminations forming nitriles from (E)- and (Z)-benzaldehyde O-pivaloyloximes)
RN 188799-40-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (Z)- (9CI) (CA
INDEX NAME)

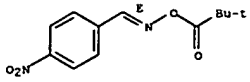
Double bond geometry as shown.



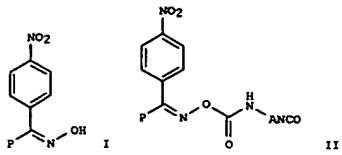
IT **149540-92-1**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT
(Reactant); PROC (Process); RACT (Reactant or reagent)
(transition-state differences for syn and anti eliminations forming nitriles from (E)- and (Z)-benzaldehyde O-pivaloyloximes)
RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA

L12 ANSWER 18 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)

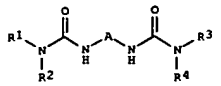
Double bond geometry as shown.



L12 ANSWER 19 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



I II



III

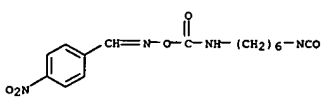
AB A general method for prepn. of bis[ureas] was developed from oxime resin-derived carbamates of diisocyanates. Thus, monoaddn. of diisocyanates a polymer-supported 4-nitrobenzaldehyde oxime I (P = polymer support) gave isocyanates II (P = polymer support; A = alkanediyl). Treatment of II with amines gave the alkanediylbis[ureas] III (R1-R4 = alkyl, cyclohexylmethyl, 4-morpholinyl, etc.). Directional urea synthesis was achieved by sequential amine addn. which demonstrated the utility of thermolabile oxime-derived carbamate linkages to a polymer support. The products, obtained in good yield in three steps, were of high chem. purity.

ACCESSION NUMBER: 1996:683459 CAPLUS
DOCUMENT NUMBER: 126:74337
TITLE: Diisocyanates as scaffolds for combinatorial libraries. The solid-phase synthesis of bis[ureas] from polymer-supported diisocyanates
AUTHOR(S): Scialdone, Mark A.
CORPORATE SOURCE: DuPont Central Res. and Development, Wilmington, DE, 19880-0328, USA
SOURCE: Tetrahedron Letters (1996), 37(45), 8141-8144
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

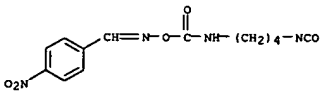
IT **185432-96-6DP**, polymer-supported **185432-97-7DP**, polymer-supported **185432-98-8DP**, polymer-supported **185432-99-9DP**, polymer-supported **185433-00-5DP**, polymer-supported **185433-01-6DP**, polymer-supported
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of alkanediylbis[ureas] from polymer-supported diisocyanates)

RN 185432-96-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(6-isocyanatohexyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 19 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

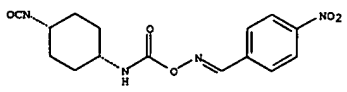


RN 185432-97-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-isocyanatobutyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

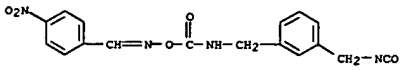


RN 185432-98-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-isocyanatocyclohexyl)amino]carbonyl]oxime, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.

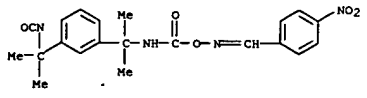


RN 185432-99-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[[3-(isocyanatomethyl)phenyl]methyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

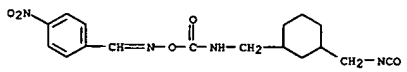


RN 185433-00-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[1-[3-(1-isocyanato-1-methylethyl)phenyl]-1-methylethyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

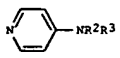
L12 ANSWER 19 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 185433-01-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[[[3-(isocyanatomethyl)cyclohexyl]methyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 20 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



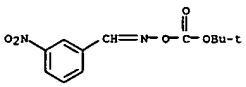
IV

AB R1CH:NOC(O)OR4 [I; R1 = acyl, (substituted) hydrocarbyl, (substituted) heterocyclyl; R4 = alkyl, alkenyl, aralkyl] are prepd. by reaction of R1CH:NOH (II; R1 = same as I) with R4OC(O)OC(O)OR4 (III; R4 = same as I) in presence of 0.01-5 mol.% (based on II) aminopyridines IV (R2, R3 = alkyl, aryl; R2R3 may form ring). II (R1 = Ph) was treated with III (R4 = CMe3) and IV (R2 = R3 = Me) in CH2Cl2 at 20.degree. for 8 h to give 97.7% I (R1 = Ph, R4 = CMe3).

ACCESSION NUMBER: 1996:523557 CAPLUS
DOCUMENT NUMBER: 125:167339
TITLE: Preparation of aldoxime carbonates
INVENTOR(S): Iwasaki, Fumiaki; Mitsuharu, Michiko
PATENT ASSIGNEE(S): Tokuyama Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

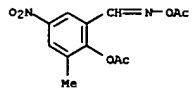
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08151357	A2	19960611	JP 1994-291593	19941125
JP 3295258	B2	20020624		

PRIORITY APPLN. INFO.: JP 1994-291593 19941125
OTHER SOURCE(S): CASREACT 125:167339; MARPAT 125:167339
IT **180308-36-5P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aldoxime carbonates from aldoximes and dicarbonates with aminopyridine catalysts)
RN 180308-36-5 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(1,1-dimethylethoxy)carbonyl]oxime (9CI) (CA INDEX NAME)

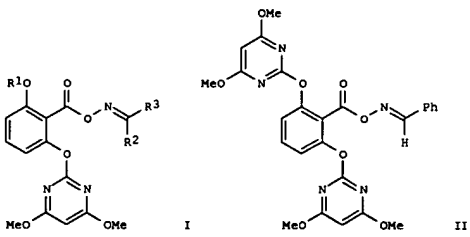


L12 ANSWER 21 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Optically active salicyloxazolines were obtained by condensation of salicylcarboximidates with chiral aminoalcs. In the enantioselective copper-catalyzed cyclopropanation of styrene with Et diazoacetate optical inductions up to 60% ee were achieved with these ligands. An example ligand is (4S-cis)-4,5-dihydro-2-(2-hydroxyphenyl)-5-phenyl-4-oxazolemethanol. Low asym. induction was obtained with 2-{[[1-(hydroxymethyl)propyl]imino]methyl}phenol as ligand.

ACCESSION NUMBER: 1995:847417 CAPLUS
DOCUMENT NUMBER: 124:86845
TITLE: Enantioselective catalysis. 971. Optically active salicyloxazoline ligands in enantioselective copper-catalyzed cyclopropanation reactions
AUTHOR(S): Brunner, Henri; Berghofer, Josef
CORPORATE SOURCE: Institut fuer Anorganische Chemie, Universitaet Regensburg, Universitaetsstrasse 31, Regensburg, 93053, Germany
SOURCE: Journal of Organometallic Chemistry (1995), 501(1-2), 161-6
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:86845
IT **172532-29-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(chiral (hydroxyphenyl)oxazolemethanols as ligands for copper-catalyzed cyclopropanation)
RN 172532-29-5 CAPLUS
CN Benzaldehyde, 2-(acetyloxy)-3-methyl-5-nitro-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)



L12 ANSWER 22 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



I II

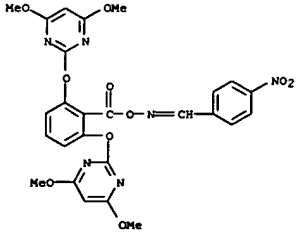
AB The invention relates to novel herbicidal pyrimidine derivs. I [R1 = 4,6-dimethoxy-2-pyrimidinyl, C1-4 alkyl, C2-4 alkenyl, acyl, alkylsulfonyl or heteroarylmethyl; R2 = H, halo, cyano, NO2, C1-8 alkyl, C1-8 alkoxy, C1-8 alkythio, C1-8 alkoxycarbonyl, C2-4 alkenyloxycarbonyl, (hetero)arylmethoxycarbonyl, C1-4 alkylaminocarbonyl, aryl-C1-4 alkylaminocarbonyl, heteroarylmethylaminocarbonyl, aryl, C2-8 alkenyl, C3-6 cycloalkyl, PhCH2, aryloxy, arylthio, or C1-8 alkylcarbonyl; R3 = (un)substituted Ph, COR4; R4 = H, C1-4 alkyl, C2-4 alkenyl, C3-6 cycloalkyl, PhCH2, aryl, C1-4 alkoxy, C2-4 alkenyloxy, C3-6 cycloalkoxy, PhCH2O, aryloxy, C1-4 alkythio, C2-4 alkenylthio, C3-6 cycloalkylthio, PhCH2S, arythio, amino which can be substituted with C1-C4 alkyl or aryl or arylmethyl], as well as a process for their prepn., and their herbicidal compns. I have excellent activity against both narrow- and broadleaf weeds, with increased safety for crops (esp. directly sown rice). For example, 2,6-bis(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid was treated with 2,2'-dipyridyl disulfide and PPh3 in PhMe to give 90% of the corresponding 2-pyridyl thioester, which reacted with benzaldehyde oxime in CH2Cl2 in the presence of CuBr2 to give 85% title compd. II. At 63 g/ha postemergence under paddy field conditions, II gave complete control of 7 weeds with no damage to direct-sown rice seedlings. Characterizing phys. and herbicidal data for 73 compds. are given.

ACCESSION NUMBER: 1995:810566 CAPLUS
DOCUMENT NUMBER: 123:228208
TITLE: Pyrimidine derivatives, process for their preparation, and their use as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Hong, Su Myeong; Kim, Hong Woo; Lim, Young Hee; Rim, Jae Suk; Kim, Jeong Su; Chae, Sang Heon
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

L12 ANSWER 22 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

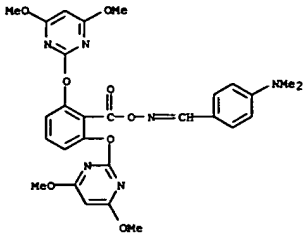
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 658549	A1	19950621	EP 1994-117857	19941111
EP 658549	B1	20010523		
R: CH, DE, FR, GB, LI, NL				
KR 9701480	B1	19970206	KR 1993-24099	19931113
KR 120271	B1	19971104	KR 1993-30055	19931227
KR 120270	B1	19971104	KR 1993-31016	19931229
US 5521146	A	19960528	US 1994-339249	19941110
BR 9404436	A	19951017	BR 1994-4436	19941111
CN 1111623	A	19951115	CN 1994-117926	19941111
CN 1043885	B	19990630		
AU 9478812	A1	19950608	AU 1994-78812	19941114
AU 673629	B2	19961114		
JP 07196629	A2	19950801	JP 1994-279506	19941114
JP 2517215	B2	19960724		

PRIORITY APPLN. INFO.: KR 1993-24099 A 19931113
KR 1993-30055 A 19931227
KR 1993-31016 A 19931229
OTHER SOURCE(S): CASREACT 123:228208; MARPAT 123:228208
IT **168088-55-9P 168088-63-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as herbicides)
RN 168088-55-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 168088-63-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 22 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



L12 ANSWER 23 OF 81 CAPLUS COPYRIGHT 2003 ACS
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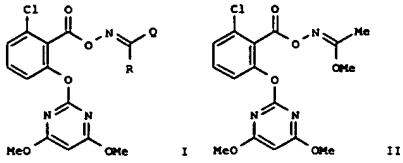


AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [[2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

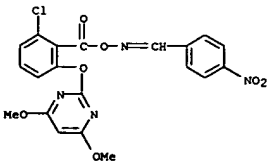
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608862	A1	19940803	EP 1994-101132	19940126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
KR 9603323	B1	19960308	KR 1993-1017	19930127
KR 9612180	B1	19960916	KR 1993-10097	19930604
KR 9612179	B1	19960916	KR 1993-10098	19930604
KR 9612181	B1	19960916	KR 1993-10099	19930604
KR 9612194	B1	19960916	KR 1993-10100	19930604
KR 9612195	B1	19960916	KR 1993-10101	19930604
CN 1101345	A	19950412	CN 1994-102665	19940126
US 5494888	A	19960227	US 1994-186589	19940126
BR 9400365	A	19940816	BR 1994-365	19940127
JP 07149735	A2	19950613	JP 1994-7824	19940127
JP 2543665	B2	19961016		

PRIORITY APPLN. INFO.: KR 1993-1017 A 19930127

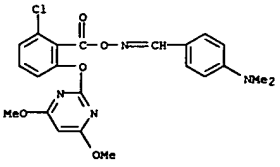
L12 ANSWER 23 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

KR 1993-10097	A	19930604	
KR 1993-10098	A	19930604	
KR 1993-10099	A	19930604	
KR 1993-10100	A	19930604	
KR 1993-10101	A	19930604	

OTHER SOURCE(S): MARPAT 121:205344
IT **157990-17-5P 157990-18-6P 157990-32-4P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-17-5 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

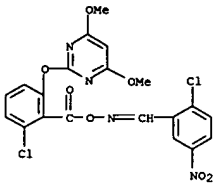


RN 157990-18-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 157990-32-4 CAPLUS
CN Benzaldehyde, 2-chloro-5-nitro-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 23 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



L12 ANSWER 24 OF 81 CAPLUS COPYRIGHT 2003 ACS

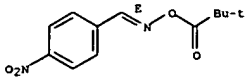
AB Elimination reactions of (E)-O-pivaloylbenzaldoximes promoted by Et3N-MeCN, tert-BuOK-tert-BuOH, and tert-BuOK-DMSO have been studied kinetically. The reactions produce benzonitrile quant. The reactions are second-order and exhibit substantial values of .alpha., .beta., and kH/kD, and an E2 mechanism is evident. The relative rates of elimination from (E)-O-pivaloylbenzaldoxime were 1, 14.8, and 4.31 .times. 104 for the above systems, resp. The kH/kD value increased, but the Hammett .rho. value increased and then decreased, with this change in the base-solvent system. These results are compared with the predictions of the More O'Ferrall-Jencks reaction coordinate diagram to assess its scope and limitations in the interpretation of the elimination reactions.

ACCESSION NUMBER: 1993:516591 CAPLUS
DOCUMENT NUMBER: 119:116591
TITLE: Elimination reactions of (E)-O-pivaloylbenzaldoximes
AUTHOR(S): Cho, Bong Rae; Jang, Wan Jin; Je, Jong Tae; Bartsch, Richard A.
CORPORATE SOURCE: Dep. Chem., Korea Univ., Seoul, S. Korea
SOURCE: Journal of Organic Chemistry (1993), 58(15), 3901-4
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **149540-92-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(elimination reaction of, kinetics of)

RN 149540-92-1 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,2-dimethyl-1-oxopropyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



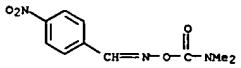
L12 ANSWER 25 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB Thermal decompn. of syn-RCH:NOCONMe2 [I: R = 2-pyridyl, 4-C6H4NO2, Ph, 4-C6H4NMe2, 2,4- or 2,5-C6H3(OMe)2, 2-methyl- or 2-methoxy-4-dimethylaminophenyl, 2-methoxy-1-naphthyl] and syn-RCH:NOBz [II: R = Ph, 4-C6H4OMe, 2,4-C6H3(OMe)2, 2- or 4-methoxy-1-naphthyl, 1,5-C10H6SO2NEt2, 2-benzyloxy-1-naphthyl] at 80-130.degree. was kinetically studied. The decompn. was 1st-order for both I and II, and electron donating groups and substituents at the ortho position increased the reaction rates. Activation entropy values for I and II were very different and, hence, different decompn. mechanisms were proposed: .beta.-elimination with syn/anti isomerization for I and concerted elimination via a cyclic 6-membered ring transition for II.

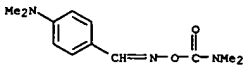
ACCESSION NUMBER: 1992:469340 CAPLUS
DOCUMENT NUMBER: 117:69340
TITLE: Reaction control of thermal decomposition of aromatic aldoxime derivatives as heat decomposing precursor compounds
AUTHOR(S): Kawata, Ken; Kitaguchi, Hiroshi; Sato, Kozo; Yabuki, Yoshiharu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Kanagawa, 250-01, Japan
SOURCE: Senryo to Yakuhin (1992), 37(2), 33-40
CODEN: SETYAL; ISSN: 0370-9671
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **93369-36-9 93369-38-1 95186-87-1 142554-04-9**
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(thermal decompn. of, kinetics of, substituent effect and mechanism in relation to)

RN 93369-36-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

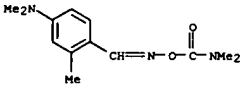


RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

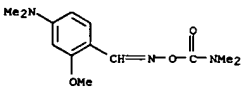


RN 95186-87-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methyl-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 25 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 142554-04-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 26 OF 81 CAPLUS COPYRIGHT 2003 ACS

GI For diagram(s), see printed CA Issue.

AB The title materials contain a thermally decolorizable dye I or II [R, R1 = aryl, heteroaryl, R and R1 may form a ring; R2 = alkyl, alkenyl, aralkyl, aryl, heteroaryl; A = 5- or 6-membered ring; (all the groups, rings, and the benzoquinone ring of II may be substituted; X- = monovalent anion). The materials provide decolored images on heating. Thus, a poly(ethylene terephthalate) film was coated with a heat-sensitive layer contg. III to give a blue thermal recording film.

ACCESSION NUMBER: 1991:52979 CAPLUS
DOCUMENT NUMBER: 114:52979
TITLE: Recording materials using thermally decolorizable dyes
INVENTOR(S): Sato, Kozo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02164590	A2	19900625	JP 1988-320164	19881219
JP 07084104	B4	19950913		
US 4981833	A	19910101	US 1989-452650	19891219

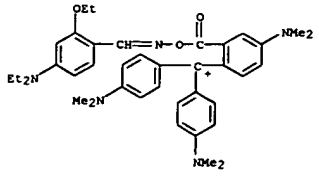
PRIORITY APPLN. INFO.: JP 1988-320164 19881219

IT **131420-03-6P**
RL: PREP (Preparation)
(prepn. of, thermally decolorizable dye, thermal recording material using)

RN 131420-03-6 CAPLUS
CN Methylium, [2-[[[[[4-(diethylamino)-2-ethoxyphenyl]methylene]amino]oxy]carbonyl]-4-(dimethylamino)phenyl]bis[4-(dimethylamino)phenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 131420-02-5
CMF C39 H48 N5 O3

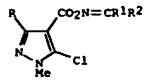


CM 2

L12 ANSWER 26 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

CRN 14874-70-5
CMF B F4
CCI CCS

L12 ANSWER 27 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



I

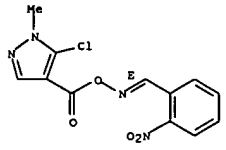
AB A series of novel 1,3-substituted 5-chloropyrazole-4-carboxylic acid oxime
esters I (R = H, Me; R1 = H, Me, Et; R2 = Ph, Me, substituted Ph; R1R2 = cyclohexylidene) was synthesized. Their chem. structures were elucidated by 1H, 13C-NMR and IR spectra. Fifteen such compds. were screened for their antifungal activity. The results showed that pyrazole oxime esters with electron withdrawing groups had better biol. activities than those with electron releasing groups.

ACCESSION NUMBER: 1991:23855 CAPLUS
DOCUMENT NUMBER: 114:23855
TITLE: Synthesis and antifungal activity of 1,3-substituted 5-chloropyrazole-4-carboxylic acid oxime esters
AUTHOR(S): Khim, Yong Whan; Park, Chi Hyun; Choi, Weon Seok; Kwon, Young Chil; Park, Chang Kyu
CORPORATE SOURCE: OCI Res. Cent., Inchon, S. Korea
SOURCE: Han'guk Nonghwa Hakhoechi (1989), 32(4), 401-7
CODEN: JKACA7; ISSN: 0368-2897
DOCUMENT TYPE: Journal
LANGUAGE: Korean

IT **131141-96-3P 131142-06-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and fungicidal activity of)

RN 131141-96-3 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(5-chloro-1-methyl-1H-pyrazol-4-yl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

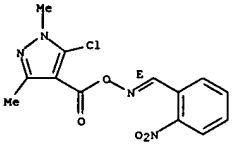
Double bond geometry as shown.



RN 131142-06-8 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(5-chloro-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L12 ANSWER 27 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



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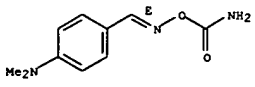
AB The 1H and 13C NMR spectra were assigned for a series of O-carbamoyloximes
of ortho- and para-substituted benzaldehyde. These compds. exist exclusively in the E configuration. The arom. protons and carbons show correlations with the appropriate substituent-induced shifts and with Hammett parameters.

ACCESSION NUMBER: 1990:405571 CAPLUS
DOCUMENT NUMBER: 113:5571
TITLE: Proton and carbon-13 NMR studies of some O-carbamoyloximes
AUTHOR(S): Wazeer, Mohammed I. M.; Ali, S. A.; Arab, Mohammed
CORPORATE SOURCE: Chem. Dep., King Fahd Univ. Pet. Miner., Dhahran, 31261, Saudi Arabia
SOURCE: Magnetic Resonance in Chemistry (1989), 27(11), 1102-4
CODEN: MRCHEG; ISSN: 0749-1581
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **127479-16-7 127479-17-8**
RL: PRP (Properties)
(proton and carbon-13 NMR of)

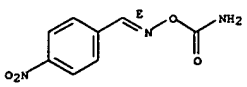
RN 127479-16-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 127479-17-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 29 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB A photothermog. material has .gtoreq.1 shielding layers which temporarily shield acid activity. The shielding layers may contain a fusible agent or a substance which is dissolved in or expanded with the fusible agent under heat-developing temp. The photothermog. material shows improved heat-developing stability and storage stability.

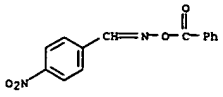
ACCESSION NUMBER: 1988:501932 CAPLUS
DOCUMENT NUMBER: 109:101932
TITLE: Photothermographic material with improved heat-developing stability and storage stability
INVENTOR(S): Goto, Sohei; Komamura, Tawara; Kono, Junichi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63004233	A2	19880109	JP 1986-147284	19860624
JP 08012412	B4	19960207		

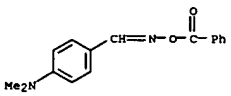
PRIORITY APPLN. INFO.: JP 1986-147284 19860624

IT 3848-35-9 4058-69-9
RL: USES (Uses)
(acid precursor, fusible agent contg., for photothermog. material)

RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



L12 ANSWER 30 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB A photothermog. material comprising a support, photosensitive Ag halide, color-formers, a reducing agent, a binder, and microcapsules is claimed wherein the microcapsule core material contains an acid and/or an acid-precursor. The material retains high contrast even after prolonged storage.

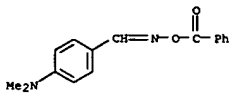
ACCESSION NUMBER: 1988:430203 CAPLUS
DOCUMENT NUMBER: 109:30203
TITLE: Photothermographic material containing microencapsulated acid(-precursor) for improved storage stability
INVENTOR(S): Okauchi, Ken; Kakuchi, Hiroyuki; Yamazaki, Hiroshi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62288837	A2	19871215	JP 1986-132473	19860607
JP 05079977	B4	19931105		

PRIORITY APPLN. INFO.: JP 1986-132473 19860607

IT 4058-69-9
RL: USES (Uses)
(photothermog. material contg. microcapsules of, for improved storage stability)

RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



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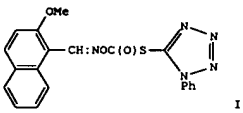


I

AB A Ag halide photog. material having .gtoreq.1 light-sensitive Ag halide emulsion layer contains .gtoreq.1 photog. reagent precursor of the formula R1CH:NOCY(LX)mTn(PUG) (R1 = H, other monovalent substituent; Y = O, NR2; R2 = substituent; L = bivalent linkage group; X = electron-attracting center; T = timing group; PUG = photog. useful group having O, N or cyclic structure; n, m = 0, 1). The precursor, which is quite stable during storage of the material, releases the photog. reagent at an appropriate time during its development. It is esp. useful for development at low pH, e.g. 9-12, and for dry thermal processing. Thus, development inhibitor precursor I was added to the emulsion layer of an exptl. monocolor photog. film as a coupler/precursor codispersion. Upon exposure and then development by a normal color neg. process, it produced a remarkable redn. in fog without affecting speed or contrast.

ACCESSION NUMBER: 1988:177038 CAPLUS
DOCUMENT NUMBER: 108:177038
TITLE: Timing precursor in silver halide photographic material
INVENTOR(S): Ito, Isamu; Kawada, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

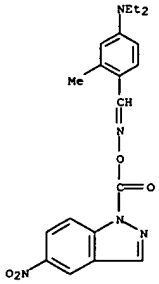
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62163051	A2	19870718	JP 1986-4290	19860114
JP 07062757	B4	19950705		

PRIORITY APPLN. INFO.: JP 1986-4290 19860114

IT 114040-47-0P
RL: PREP (Preparation)
(prepn. of, as timing photog. development inhibitor precursor)

RN 114040-47-0 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-2-methyl-, O-[(5-nitro-1H-indazol-1-yl)carbonyl]oxime (9CI) (CA INDEX NAME)

L12 ANSWER 31 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



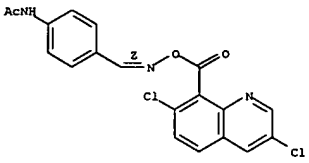
L12 ANSWER 32 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Oxime esters I [X = H, alkyl, halo; Z = H, Me; R1 = H, alkyl, alkoxymethyl, -Et, alkylthiomethyl, -Et, cyano, Me (un)substituted cycloalkyl, Ac, Bz, etc.; R2 = H, when R1 .noteq. H, R2 = alkyl, alkoxy-, chloro-, azolyl-, dimethoxymethyl, cyano, etc., when R1 = H, Me, or Ac, R2 = (tetrahydro)furyl, thienyl, tetrahydropyranyl, etc.; CR1R2 = cycloalkylidene, cycloalkenylidene, or 4-oxacyclohexadienylidene (un)substituted by Me, with optional O or S atoms in 5- or 6-numbered rings], useful as herbicides (no data), were prepd. by reactions of acid halides II (R = halo) with R1R2C:NOH. Me2C:NOH in CH2Cl2 was treated with pyridine, then portionwise with 3,7-dichloro-8-quinolinecarbonyl chloride at 15-20.degree. and the mixt. stirred 8 h at 25.degree. to give 81% I (R1 = R2 = Me, X = Cl, Z = H).
ACCESSION NUMBER: 1987:598109 CAPLUS
DOCUMENT NUMBER: 107:198109
TITLE: Oxime esters of substituted 8-quniolinecarboxylic acids, their preparation, and their use as herbicides
INVENTOR(S): Plath, Peter; Eicken, Karl; Zeeh, Bernd; Eichenauer, Ulrich; Hagen, Helmut; Kohler, Rolf Dieter; Meyer, Norbert; Wuerzer, Bruno
PATENT ASSIGNEE(S): BASF A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 6 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3545904	A1	19870625	DE 1985-3545904	19851223
JP 62148471	A2	19870702	JP 1986-292645	19861210
EP 230627	A1	19870805	EP 1986-117717	19861219
EP 230627	B1	19920304		
R: BE, CH, DE, FR, GB, IT, LI, NL				
HU 43042	A2	19870928	HU 1986-5383	19861222
HU 198022	B	19890728		
US 4808212	A	19890228	US 1986-944519	19861222

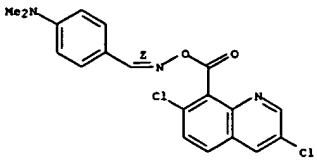
PRIORITY APPLN. INFO.: DE 1985-3545904 19851223
IT 110828-98-3P 110853-36-6P 110853-47-9P 110853-65-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 110828-98-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(3,7-dichloro-8-quinolinyl)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L12 ANSWER 32 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

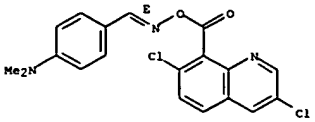


L12 ANSWER 32 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



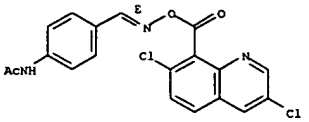
RN 110853-36-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(3,7-dichloro-8-quinolinyl)carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 110853-47-9 CAPLUS
CN Acetamide, N-[4-[[[[(3,7-dichloro-8-quinolinyl)carbonyl]oxy]imino]methyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 110853-65-1 CAPLUS
CN Acetamide, N-[4-[[[[(3,7-dichloro-8-quinolinyl)carbonyl]oxy]imino]methyl]phenyl]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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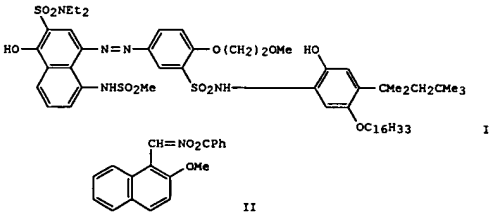


I

II

AB Heat-developable photosensitive materials giving an image with a high signal-to-noise ratio, that is a high Dmax and a low Dmin, and a high d. are composed of a photosensitive gelatin-Ag halide emulsion layer, a dye-forming substance that upon redn. at a high temp. produces a diffusible dye, and an org. acid precursor with the structural unit -CH:NO2C- that is very stable at .ltorsim.50.degree., but frees an acid at temps. proceeding to development to neutralize the base and stop the development. Thus, a PET support was coated with a compn. contg. a gelatin-Ag(Br,I) emulsion 20, a gelatin-Ag benzotriazole emulsion 10, a dispersion of I 33 g, a 5% aq. soln. of p-C9H19C6H4O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4, a gelatin dispersion of II 10 mL, and a soln. of guanidine trichloroacetate 1.6 mL in EtOH 16 mL at 33.mu. (wet). After drying a gelatin protective layer was added. The resultant material was then imagewise exposed 10 s at 2000 lx with a W lamp, heated for 60 s on a 140.degree. heating block, contacted with a wet receptor sheet, and heated 6 s at 80.degree. to give a Dmax of 2.10 and a Dmin of 0.20 vs. 2.35 and 0.85, resp., for a II-free control.
ACCESSION NUMBER: 1986:139353 CAPLUS
DOCUMENT NUMBER: 104:139353
TITLE: Heat-developing light-sensitive color material
INVENTOR(S): Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 90 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3508761	A1	19850919	DE 1985-3508761	19850312

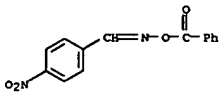
L12 ANSWER 33 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

JP 60192939	A2	19851001	JP 1984-48305	19840314
JP 04069775	B4	19921109		
US 4656126	A	19870407	US 1985-711885	19850314

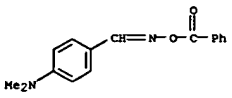
PRIORITY APPLN. INFO.: JP 1984-48305 19840314

IT **3848-35-9 4058-69-9**
RL: USES (Uses)
(color diffusion-transfer photothermog. materials contg. base-neutralizing acid precursor from, for improved image quality)

RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



L12 ANSWER 34 OF 81 CAPLUS COPYRIGHT 2003 ACS
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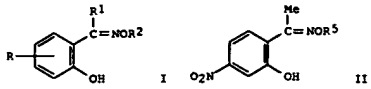


AB Arom. oximes I (R = H, Cl, NO2, CO2Et, CO2Me, CONH2, CN; R1 = H, Me, CN, Ph; R2 = R3CO (R3 = H, C1-10 alkyl, allyl, aralkyl), N-protected amino acid or peptide moiety) were used in the acylation of HNR3R4 [R3 = H, C1-5 alkyl, (un)substituted Ph or CH2Ph; R4 = C1-10 alkyl, allyl, aralkyl, amino acid or peptide moiety] to give amides R2NR3R4. Thus, Z-Gly-OH (Z = PhCH2O2C) was condensed with oxime II (R5 = H) by DCC in DMF to give 87% II (R5 = Z-Gly) (III). PhCH2NH2 was acylated by III to give 80% reaction in 2 min 25 s.

ACCESSION NUMBER: 1985:185507 CAPLUS
DOCUMENT NUMBER: 102:185507
TITLE: Acylation with acylating agent
INVENTOR(S): Hayashi, Ikuo; Ogihara, Keizo; Itikawa, Tadao; Shimizu, Kiyoshi
PATENT ASSIGNEE(S): Nitto Boseki Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

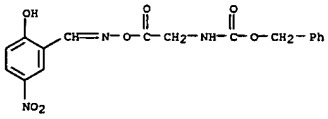
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 127342	A2	19841205	EP 1984-302958	19840502
EP 127342	A3	19870408		
R: CH, DE, FR, GB, LI				
JP 59204156	A2	19841119	JP 1983-78572	19830504
US 4559172	A	19851217	US 1984-605781	19840501

PRIORITY APPLN. INFO.: JP 1983-78572 19830504
OTHER SOURCE(S): CASREACT 102:185507

IT **96140-47-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation by, of benzylamines)

RN 96140-47-5 CAPLUS
CN Carbamic acid, [2-[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

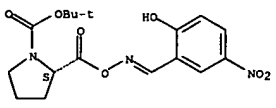
L12 ANSWER 34 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



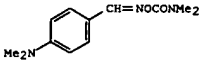
IT **96140-56-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(peptide coupling of, with dipeptide Me ester)

RN 96140-56-6 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]carbonyl]-, 1,1-dimethylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L12 ANSWER 35 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



AB Photothermog. materials contain in a binder microparticles of a base-releasing precursor which is substantially insol. in water. The materials have good preservation stability due to the precursor having high resistance against self-decompn. by ambient moisture. Thus, a water-insol. type precursor I was mixed with poly(ethylene glycol), gelatin, and water and crushed using a mill to give a dispersion of precursor grains with an av. size of 1 .mu.m. The dispersion was then coated on a poly(ethylene terephthalate) support together with a Ag(Br,I) emulsion, a cyan coupler dispersion contg. 2-dodecylcarbamoyl-1-naphthol, and 2,6-dichloro-p-aminophenol to form a photosensitive film. The film was imagewise-exposed and heat-developed at 150.degree. for 20 s to give a neg. cyan dye image with Dmax 2.08 and Dmin 0.25.

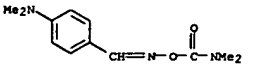
ACCESSION NUMBER: 1985:123151 CAPLUS
DOCUMENT NUMBER: 102:123151
TITLE: Photothermographic materials
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59174830	A2	19841003	JP 1983-50000	19830325
JP 03058498	B4	19910905		
US 4514493	A	19850430	US 1984-592197	19840322

PRIORITY APPLN. INFO.: JP 1983-50000 19830325

IT **93369-38-1**
RL: USES (Uses)
(color photothermog. compn. contg.)

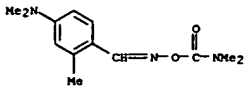
RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



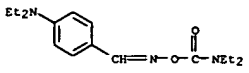
IT **95186-87-1 95186-88-2**
RL: USES (Uses)
(color photothermog. material contg.)

RN 95186-87-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-2-methyl-, O-[(dimethylamino)carbonyl]oxim

L12 ANSWER 35 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
e (9CI) (CA INDEX NAME)



RN 95186-88-2 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



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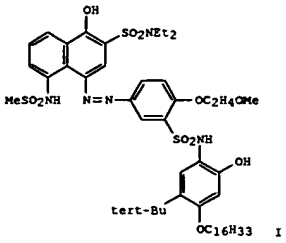
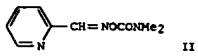


I



II

AB A photog. material which forms low-fog storage-stable dye images by heating consists of .gtoreq.1 Ag halide emulsion, a binder, a dye-releasing redox compd., and a base precursor RCH:NOCONR1R2 (R = alkyl, cycloalkyl, alkenyl, aryl, aralkyl, acyl, heterocyclyl; R1, R2 = H, alkyl, cycloalkyl, aralkyl, or RR1 together can form a ring, or NRR1 may form an imino group by a double bond. Thus, a poly(ethylene terephthalate) support was coated with a compn. contg. a Ag(Br,I) emulsion 25, a dye-releasing redox compd. dispersion (contg. I 5, Na bis(2-ethylhexyl) sulfosuccinate 0.5, tricresyl phosphate 5, 10% aq. gelatin 100 g, EtOAc 30 mL) 33 g, a 5% aq. soln. of C9H19C6H4-p-O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4 mL, and a soln. contg. the base precursor II 2.5 g in EtOH 20 mL, to a wet thickness of 30 .mu.m, dried, imagewise exposed to 2000 lx for 10 s using W lamp, heated 10 s to 140.degree., contacted with a H2O-wetted image receiver (consisting of a polyester support contg. dispersed TiO2 and a gelatin layer of Me acrylate-N,N,N-trimethyl-N-vinylbenzylammonium chloride copolymer), and heated 6 s at 80.degree.. After sepn. of the elements a neg. magenta image was obtained on the receiver whch had a Dmax and Dmin of 2.05 and 0.2, resp., vs. 0.03 and 0.03, resp., for a II-free control.

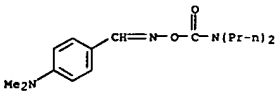
ACCESSION NUMBER: 1985:70099 CAPLUS
DOCUMENT NUMBER: 102:70099
TITLE: Heat-developable color photographic materials
INVENTOR(S): Hirai, Hiroyuki; Kawata, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW

L12 ANSWER 36 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

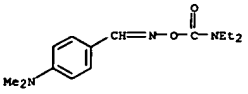
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 118078	A2	19840912	EP 1984-101801	19840221
EP 118078	A3	19841128		
EP 118078	B1	19880107		
R: DE, FR, GB, NL				
JP 59157637	A2	19840907	JP 1983-31614	19830225
JP 02045180	B4	19901008		
US 4499180	A	19850212	US 1984-583913	19840227

PRIORITY APPLN. INFO.: JP 1983-31614 19830225

IT 94528-51-5
RL: USES (Uses)
(photog. heat-developable emulsion contg., as base precursor)
RN 94528-51-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dipropylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

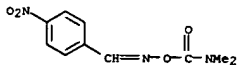


IT 93369-44-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and application of, as base precursor in heat-developable color photog. materials)
RN 93369-44-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

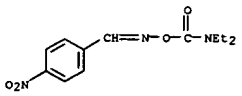


IT 93369-36-9P 93369-37-0P 93369-38-1P
RL: PREP (Preparation)
(prepn. of, for heat-developable color photog. materials)
RN 93369-36-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

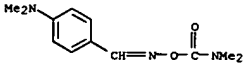
L12 ANSWER 36 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 93369-37-0 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 93369-38-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



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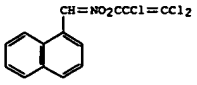
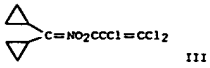


II



III

AB C12C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g C12C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58 g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.

ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

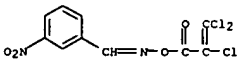
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 112524	A1	19840704	EP 1983-112276	19831207
EP 112524	B1	19860528		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 59110665	A2	19840626	JP 1982-220165	19821217
US 4581365	A	19860408	US 1983-557688	19831202
IL 70443	A1	19870130	IL 1983-70443	19831214
BR 8306913	A	19840724	BR 1983-6913	19831215
ZA 8309329	A	19840829	ZA 1983-9329	19831215
DK 8305810	A	19840618	DK 1983-5810	19831216
AU 8322504	A1	19840621	AU 1983-22504	19831219

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740

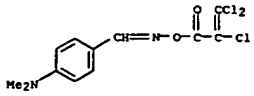
IT **93033-19-3P 93033-27-3P 93033-52-4P 93033-53-5P 93033-54-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)

RN 93033-19-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

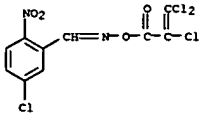
L12 ANSWER 37 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



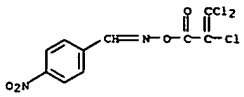
L12 ANSWER 37 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



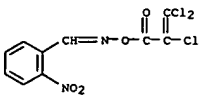
RN 93033-27-3 CAPLUS
CN Benzaldehyde, 5-chloro-2-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



RN 93033-52-4 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



RN 93033-53-5 CAPLUS
CN Benzaldehyde, 2-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)



RN 93033-54-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

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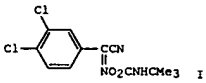


I

AB Oxime carbamates and oxime carbonates ArC(:NO2CR)X (Ar = substituted Ph, naphthyl, furan, or thiophene; R = mono- or disubstituted amine, substituted alkoxy, substituted alkylthio, the substituents of which include substituted hydrocarbyl and heterocyclic groups; X = H, CN, CO2H, alkyl, alkanoyl, etc.) were prepd. and evaluated as antidotes for the protection of crops against triazine, haloacetanilide, and [(pyridyloxy)phenoxy]propionate herbicides. Thus, in preemergence tests with sorghum-millet var Funk G-522, the title compd. I (ArC(:NO2CR)X; Ar = 2,4-C12C6H4, R = NHCMe3, X = CN) [71059-14-8] at 1.0 ppm offered marked protection against Metolachlor [51218-45-2] at 5 ppm. Dust, granulate, wettable powder, and emulsifiable conc. formulations for antidotes are described.

ACCESSION NUMBER: 1984:419085 CAPLUS
DOCUMENT NUMBER: 101:19085
TITLE: 3,4-Dichlorophenylacetonitrile-N-tert-butylcarbamoyloxy ether for the protection of crops against injury by herbicides
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy Corp. , USA
SOURCE: U.S., 17 pp. Cont. of U.S. Ser. No. 938,205, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

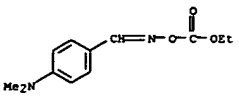
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4416686	A	19831122	US 1980-112049	19800114
US 4426221	A	19840117	US 1982-425812	19820928
US 4453969	A	19840612	US 1982-425814	19820928
US 4453974	A	19840612	US 1982-425815	19820928
US 4456468	A	19840626	US 1982-425813	19820928
US 4475945	A	19841009	US 1982-425782	19820928

PRIORITY APPLN. INFO.: US 1978-938205 19780830
US 1980-112049 19800114
OTHER SOURCE(S): CASREACT 101:19085

IT **71063-92-8P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide antidote)

RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

L12 ANSWER 38 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



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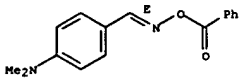
AB The rate of E-Z isomerization of O-acylaldoximes in glacial HOAc has been followed by using spectral data. The decrease of O-acylaldoxime with time was established from the decrease of the limit current of the polarog. wave. Gas chromatog. and liq. chromatog. were applied to det. the concn. of the reaction products. The O-acylaldoximes also undergo acid-catalyzed cleavage to give nitriles.

ACCESSION NUMBER: 1984:102525 CAPLUS
DOCUMENT NUMBER: 100:102525
TITLE: Kinetics of reactions of O-benzoylbenzaldoxime derivatives in acetic acid
AUTHOR(S): Mollin, J.; Holakovska, A.
CORPORATE SOURCE: Fac. Nat. Sci., Palacky Univ., Olomouc, CS-771 46, Czech.
SOURCE: Chemicke Zvesti (1983), 37(5), 633-8
CODEN: CHZVAN; ISSN: 0366-6352
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **16061-99-7 88997-13-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(isomerization and cleavage reactions of, in acid medium, kinetics of)

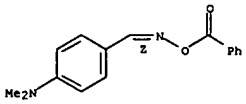
RN 16061-99-7 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 88997-13-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

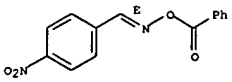


IT **16061-94-2 18322-89-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(isomerization and reactions of, in acid medium, kinetics of)

RN 16061-94-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, (E)- (9CI) (CA INDEX NAME)

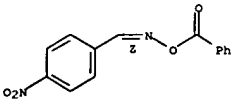
Double bond geometry as shown.

L12 ANSWER 39 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



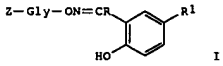
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 40 OF 81 CAPLUS COPYRIGHT 2003 ACS

GI



I

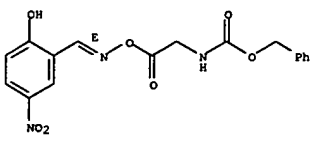
AB Title esters I (Z = PhCH2O2C; R = H, Me, Ph; R1 = H, Cl, NO2) were prepd. by several methods. For aminolysis with benzylamine, esters I showed higher reactivity than similar esters contg. no o-HO group. This is attributed to formation of an intramol. H bond between the o-HO group and the hydroxyimino N. This mechanism of activation seems to be an intramol. acid-catalysis. I (R = H) were the most reactive. The reactivity of esters I is also discussed in relation to pKa values of arom. o-hydroxy oximes.

ACCESSION NUMBER: 1984:7101 CAPLUS
DOCUMENT NUMBER: 100:7101
TITLE: Reactivity of aromatic o-hydroxy oximes. I. Synthesis and aminolysis of acylglycine esters of aromatic o-hydroxy oximes
AUTHOR(S): Hayashi, Ikuo; Ogihara, Keizo; Shimizu, Kiyoshi
CORPORATE SOURCE: Res. Dev. Lab., Nitto Boseki Co., Ltd., Koriyama, 963, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(8), 2432-7
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **87974-60-5P 87974-69-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and aminolysis of)

RN 87974-60-5 CAPLUS
CN Carbamic acid, [2-[[[(2-hydroxy-5-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester, (E)- (9CI) (CA INDEX NAME)

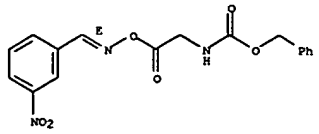
Double bond geometry as shown.



RN 87974-69-4 CAPLUS
CN Carbamic acid, [2-[[[(3-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L12 ANSWER 40 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



L12 ANSWER 41 OF 81 CAPLUS COPYRIGHT 2003 ACS

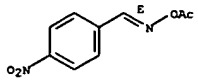
AB The CTAB micelle-catalyzed reaction of RCH:NOH (I; R = aryl) with p-AcOC6H4NO2 to give RCH:NOAc was studied. The catalysis is more effective as the base strength of I decreases, but the reactivity of I is not dependent on its basicity. These are orbital controlled reactions involving interactions between both the n and .pi. occupied orbitals of I and the LUMO of p-AcOC6H4NO2.

ACCESSION NUMBER: 1982:5759 CAPLUS
DOCUMENT NUMBER: 96:5759
TITLE: Effects of micelles on the basicity and reactivity of .alpha.-aromatic nucleophiles
AUTHOR(S): Meyer, G.; Viout, P.
CORPORATE SOURCE: Groupe Rech. 12, CNRS, Thiais, 94320, Fr.
SOURCE: Tetrahedron (1981), 37(12), 2269-72
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: French

IT 80055-47-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis of, micelle effect on)

RN 80055-47-6 CAPLUS
CN Benzaldehyde, 4-nitro-, O-acetyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 42 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB Carbamates RR1C:NO2CR2 [I; R = optionally substituted Ph or naphthyl, esterified CO2H, optionally substituted carbamoyl; R1 = cyano, alkanoyl, CO2H, esterified CO2H, H, halo, alkyl, optionally carbamoyl; R2 = optionally substituted NH2, ZR3 (Z = O, S; R3 = aliph., cycloaliph. araliph., arom., or heterocyclic group)] were prepd.; they showed usefulness as antidotes for herbicides. Thus, I (R = 3,4-Cl2C6H3, R1 = cyano, R2 = SEt) was prepd. in 73.7% yield by treating 3,4-Cl2C6H3C(:NOH)CN with EtSCOCl.

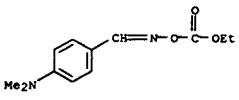
ACCESSION NUMBER: 1981:442679 CAPLUS
DOCUMENT NUMBER: 95:42679
TITLE: Oxime carbamates and -carbonates for the protection of plant cultures
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Neth. Appl., 54 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7808962	A	19800304	NL 1978-8962	19780831

PRIORITY APPLN. INFO.: NL 1978-8962 19780831

IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



L12 ANSWER 43 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB The title compds. RCR1:NOR2 [R = (un)substituted Ph, naphthyl, furyl, or thienyl, or carboxylic ester or carbamyl group; R1 = cyano, alkanoyl, carboxylic ester, CO2H, halo, H, carboxamide, alkyl; R2 = carboxamide, ester, thioester group], useful as antidotes for protecting cultivated plants from harmful agrochems., esp. herbicides, were prepd. The compds. are esp. useful in seed or seedling dressing compns. E.g., PhC(CN):NO2CNHMe was prepd. (89.8%) by treating benzyl cyanide oxime with MeNCO in the presence of diazabicyclooctane catalyst (MeCN, 50.degree.).

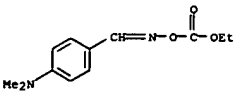
ACCESSION NUMBER: 1981:46990 CAPLUS
DOCUMENT NUMBER: 94:46990
TITLE: Oxime carbamates and oxime carbonates for the protection of cultivated crops
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Brit. UK Pat. Appl., 21 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2028797	A	19800312	GB 1978-35200	19780831
GB 2028797	B2	19830427		

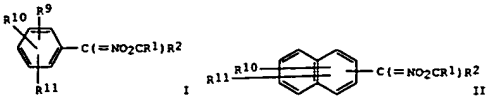
PRIORITY APPLN. INFO.: GB 1978-35200 19780831

IT 71063-92-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide antidote)

RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



L12 ANSWER 44 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI



AB Glyoxylonitrile oximes and similar compds. were O-acylated by org. isocyanates, carbamoyl chlorides, chloroformate esters, and esters of ClC(O)SH to yield RC(:NO2CR1)R2 [R = CO2R3 (R3 = aliph., cycloaliph., or araliph. group), COR4 [R4 = NR5R6 (R5 = H, alkyl, cycloalkyl; R6 = H, aliph., cycloaliph., araliph., arom., or heterocyclic group; or NR5R6 form a heterocycle), NHCONHR6 (R6 same as above)], furyl, thienyl, halofuryl or -thienyl, nitrofuryl or -thienyl, alkylfuryl or -thienyl; R1 = NR7R8 (R7 = H, alkoxy, aliph., cycloaliph., araliph., arom., or heterocyclic group; R8 = aliph., cycloaliph., araliph., arom., or heterocyclic group), ZR8 (Z = O or S, R8 same as above); R2 = cyano, alkanoyl, (un)esterified CO2H, H, carbamoyl, halo, alkyl] and arom. compds. I and II (R1 and R2 same as above; R9 = H, halo, alkyl, alkoxy, phenoxy; R10 and R11 independently are H, halo, NO2, alkyl, haloalkyl, alkoxy), which showed effectiveness as antidotes for herbicides. A mixt. of PhC(:NOH)CN, MeNCO, and diazabicyclooctane in MeCN was heated at 50.degree. to give PhC(:NO2CNHMe)CN.

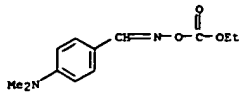
ACCESSION NUMBER: 1981:30218 CAPLUS
DOCUMENT NUMBER: 94:30218
TITLE: Oxime carbamates and oxime carbonates useful in protecting plants
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Fr. Demande, 44 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2434802	A1	19800328	FR 1978-25043	19780830
FR 2434802	B1	19810306		

PRIORITY APPLN. INFO.: FR 1978-25043 19780830

IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

L12 ANSWER 44 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



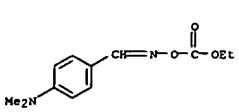
L12 ANSWER 45 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB RR1C:NO2CR2 (R = optionally substituted Ph, naphthyl, thienyl, furyl; R1 = cyano, alkanoyl, optionally esterified or amidated CO2H, H, halogen, alkyl; R2 = amino, optionally etherified OH or SH) were prepd. Thus NCCPh:NOH was treated with MeNCS to give 89.8% NCCPh:NO2CNHMe. Wheat seeds treated with 10 ppm PhMeC:NO2CNHC6H4Cl-4 (I) showed .apprx.30% damage when grown in soil pretreated with 8 ppm Me 2-[4-(3,5-dichloro-2-pyridyloxy)phenoxy]propionate, compared with .apprx.70% damage in the absence of treatment with I.

ACCESSION NUMBER: 1980:586009 CAPLUS
DOCUMENT NUMBER: 93:186009
TITLE: Oxime carbonates useful in protecting plants from damage by herbicides
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Braz. Pedido PI, 59 pp.
CODEN: BPXXDX
DOCUMENT TYPE: Patent
LANGUAGE: Portuguese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 7805666	A	19800318	BR 1978-5666	19780831

PRIORITY APPLN. INFO.: BR 1978-5666 19780831

IT 71063-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

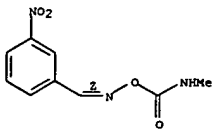


L12 ANSWER 46 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Hydrolysis of R2C6H4CR1:NO2CNRMe (R, R1 = H, Me; R2 = H, Me, MeO, Me2CH, Br, m- and p-O2N), studied in 0.01-5.0 N OH- at 25.degree. showed 1st-order dependence each in OH- and the ester. The data suggest an E1cB elimination mechanism with formation of an isocyanate intermediate. The Hammett .rho. values were different from those usually reported for such a reaction scheme, as the imine bond weakens the substituent effects.

ACCESSION NUMBER: 1980:407484 CAPLUS
DOCUMENT NUMBER: 93:7484
TITLE: Kinetics and mechanism of hydrolysis of insecticidal O-(methylcarbamoyl)oximes
AUTHOR(S): Mrlina, Georges; Calmon, Jean Pierre
CORPORATE SOURCE: Lab. Chim. Org. Biol. Physicochem. Sol, Ec. Natl. Super. Agron., Toulouse, 31076, Fr.
SOURCE: Journal of Agricultural and Food Chemistry (1980), 28(3), 605-9
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English

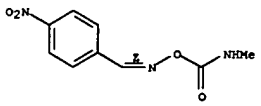
IT 73744-22-6P 73744-23-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and alk. hydrolysis of, kinetics of)
RN 73744-22-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

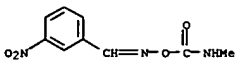


RN 73744-23-7 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime, (Z)- (9CI) (CA INDEX NAME)

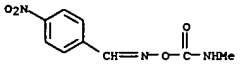
Double bond geometry as shown.



L12 ANSWER 47 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB As the anticholinesterase activity and the mechanism of alk. hydrolysis of O-(methylcarbamoyl) benzaldoximes and acetophenoximes are analogous to those of Ph N-methylcarbamates, these 2 groups of derivs. were compared by means of structure-activity relations. The correlations with the electronic substituent parameter .sigma. showed that the mechanism of inhibition of acetylcholinesterase [9000-81-1] by O-(methylcarbamoyl) oximes is the same as that obsd. for Ph N-methylcarbamates bearing strongly electron-withdrawing substituents. The correlations with the bimol. rate const. kOH suggest that the mechanism of the alk. hydrolysis of oxime carbamates may closely parallel their mechanism of interaction with acetylcholinesterase at the serine hydroxyl.
ACCESSION NUMBER: 1980:210126 CAPLUS
DOCUMENT NUMBER: 92:210126
TITLE: Inhibition of acetylcholinesterase by O-(methylcarbamoyl) oximes. Structure-activity relationships
AUTHOR(S): Mrlina, Georges; Calmon, Jean Pierre
CORPORATE SOURCE: Lab. Chim. Org. Biol. Phys.-Chim. Sol, Ec. Natl. Super. Agron., Toulouse, 31076, Fr.
SOURCE: Journal of Agricultural and Food Chemistry (1980), 28(3), 673-5
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **39102-00-6 39102-02-8**
RL: BIOL (Biological study)
(acetylcholinesterase inhibition by)
RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



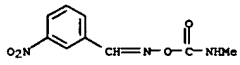
RN 39102-02-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



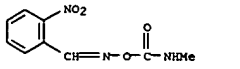
L12 ANSWER 48 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The oxime carbamates and carbonates ArCX(:NOCOR) (Ar = substituted or unsubstituted Ph, naphthyl, 2-furanyl, H2NCO, MeOCO, EtOCO, etc.; X = CN, Me, NO2, etc.; R = substituted NH2, alkoxy, alkylthio, etc.) are herbicidal antidotes. Thus, in a pre-emergence lab. expt., 1 ppm PhC(CN)[:NOCONHPr-iso) [71059-03-5] protected sorghum millet against the phytotoxic effect of metolachlor [51218-45-2]. The synthesis of the compds. is given.
ACCESSION NUMBER: 1980:141801 CAPLUS
DOCUMENT NUMBER: 92:141801
TITLE: Oxime carbamates and oxime carbonates for the protection of cultivated crops
INVENTOR(S): Martin, Henry
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: S. African, 56 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7804846	A	19790829	ZA 1978-4846	19780825
DE 2837204	A1	19800306	DE 1978-2837204	19780825
DE 2837204	C2	19891026		
CA 1159071	A1	19831220	CA 1978-310206	19780829
AU 530210	B2	19830707	AU 1978-39380	19780830
AU 7839380	A1	19800306		

PRIORITY APPLN. INFO.: ZA 1978-4846 19780825
IT **39102-00-6 39102-01-7 71063-92-8 72405-73-3**
RL: BIOL (Biological study)
(prepn. as herbicide antidote)
RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

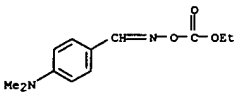


RN 39102-01-7 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

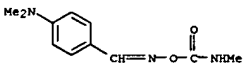


RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)

L12 ANSWER 48 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



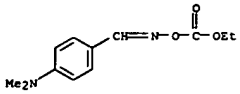
RN 72405-73-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 49 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB ArC[:NOC(O)R]R1 [Ar = CO2R2 (R2 = alkyl, cycloalkyl, aralkyl), substituted carbamoyl, Ph, halo-, alkyl-, alkoxy-, phenoxy-, cyano-, nitro-, (haloalkyl)-, or (trifluoromethyl)phenyl, naphthyl, halo-, nitro-, alkyl-, (haloalkyl)-, or alkoxynaphthyl; R = NR3R4 (R3 = H, alkoxy; R4 = alkyl, cycloalkyl, aralkyl, aryl, heteroaryl), ZR4 (Z = O, S; R4 same as above); R1 = cyano, alkanoyl, carbalkoxy, CO2H, H, carbamoyl, halo, alkyl] were prepd. by different methods and they protected plants against herbicides. Thus, MeNCO and diazabicyclooctane was added to PhC(:NOH)CN in MeCN, and the mixt. was heated at 50.degree. to give PhC(:NO2CNHMe)CN.
ACCESSION NUMBER: 1979:507670 CAPLUS
DOCUMENT NUMBER: 91:107670
TITLE: (Hydroximino)malonic acid carbamates and carbonates for protecting plants from herbicides
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Belg., 45 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

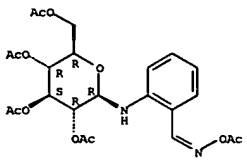
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 870066	A1	19790228	BE 1978-190145	19780830

PRIORITY APPLN. INFO.: BE 1978-190145 19780830
IT **71063-92-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71063-92-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(ethoxycarbonyl)oxime (9CI) (CA INDEX NAME)



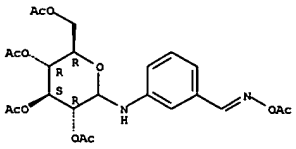
L12 ANSWER 50 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB N-glycosides of o-H2NC6H4CH:NOH with D-glucose, D-galactose, D-mannose, L-rhamnose, and D-ribose were prepd. by fusing the reactants in the presence of aq. HCl. N-glycosides of m-H2NC6H4CH:NOH were prepd. similarly. All glycosides in the meta series are colorless, whereas those in the ortho series are bright yellow due to formation of a pseudonitroso system. The .alpha.-anomer structure is presumed for the ortho derivs., whereas the .beta.-anomers predominate in the meta series.
ACCESSION NUMBER: 1979:39181 CAPLUS
DOCUMENT NUMBER: 90:39181
TITLE: Syntheses and studies on N-glycosides. VII. N-Glycosides of o- and m-aminobenzaldoximes
AUTHOR(S): Sykulski, Jerzy; Czyzewska, Joanna
CORPORATE SOURCE: Sch. Med., Inst. Basic Chem. Sci., Lodz, Pol.
SOURCE: Acta Poloniae Pharmaceutica (1978), 35(2), 169-73
CODEN: APPHAX; ISSN: 0001-6837
DOCUMENT TYPE: Journal
LANGUAGE: Polish
IT **68768-60-5P 68768-61-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 68768-60-5 CAPLUS
CN Benzaldehyde, 2-[[(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)amino]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 68768-61-6 CAPLUS
CN Benzaldehyde, 3-[[(2,3,4,6-tetra-O-acetyl-D-glucopyranosyl)amino]-, 1-(O-acetyloxime) (9CI) (CA INDEX NAME)

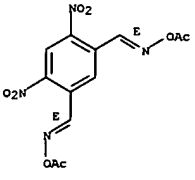
Absolute stereochemistry.
Double bond geometry unknown.



L12 ANSWER 50 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

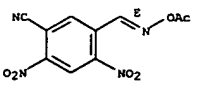
L12 ANSWER 51 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The reaction of 4,6-dinitroisophthalaldehyde with pyridine gave 1-(2,4-diformyl-5-hydroxyphenyl)pyridinium hydroxide inner salt (I), and the reaction of 4,6-dinitroisophthalonitrile with pyridine gave the 2,4-dicyano analog of I as the main product, with 1-(3,5-dicyano-2-hydroxy-6-nitrophenyl)pyridinium hydroxide inner salt and 4-hydroxy-6-nitroisophthalonitrile as side products.
ACCESSION NUMBER: 1978:529220 CAPLUS
DOCUMENT NUMBER: 89:129220
TITLE: The reaction of 4,6-dinitroisophthalaldehyde and 4,6-dinitroisophthalonitrile with pyridine
AUTHOR(S): Adam, Jean Marie; Hindermann, Peter; Winkler, Tammo
CORPORATE SOURCE: Farbenforschungslab., Ciba-Geigy A.-G., Basel, Switz.
SOURCE: Helvetica Chimica Acta (1978), 61(5), 1778-83
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
IT **67640-45-3P 67640-47-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 67640-45-3 CAPLUS
CN 1,3-Benzenedicarboxaldehyde, 4,6-dinitro-, bis(O-acetyloxime), (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



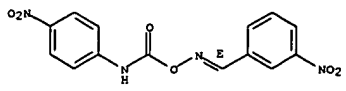
RN 67640-47-5 CAPLUS
CN Benzonitrile, 5-[[(acetyloxy)imino]methyl]-2,4-dinitro-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



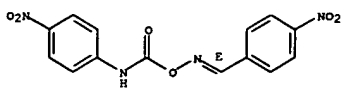
L12 ANSWER 52 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The alk. hydrolysis kinetics and mechanism of 4-O2NC6H4NRCO2N:CHC6H4R1 (I; R = H, Me; R1 = H, 4-MeO, 4-Me, 3-Cl, 3-NO2, 4-NO2) were detd. I (R = H) in aq. EtOH contg. NaOH gave 4-O2NC6H4NHCO2Na (which decompd. to 4-O2NC6H4NH2) and RC6H4CH:NONa (II; R = H, 4-MeO, 4-Me, 3-Cl, 3-NO2, 4-NO2) via an E1cB mechanism; II hydrolyzed to give the corresponding RC6H4CHO. The hydrolysis of I (R = H) exhibited .rho. 1.4 and .beta.-1.4.
The hydrolysis of I (R = Me) gave 4-O2NC6H4NHMe and the corresponding II via a BAc2 mechanism in which N-C bond cleavage occurred in the rate-detg. decompn. of the tetrahedral intermediate; this process had .rho. 0.
ACCESSION NUMBER: 1978:104467 CAPLUS
DOCUMENT NUMBER: 88:104467
TITLE: Carbamates. Part IX. Kinetics and mechanism of alkaline hydrolysis of (E)-O-(N-4-nitrophenylcarbamoyl)benzaldoximes in 30% aqueous ethanol
AUTHOR(S): Hladka, J.; Mindl, J.; Vecera, M.
CORPORATE SOURCE: Org. Chem. Dep., Inst. Chem. Technol., Pardubice, Czech.
SOURCE: Collection of Czechoslovak Chemical Communications (1977), 42(11), 3316-24
CODEN: CCCCAK; ISSN: 0366-547X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **65786-04-1 65786-05-2 65786-08-5**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(solvolysis of, kinetics and mechanism of)
RN 65786-04-1 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 65786-05-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

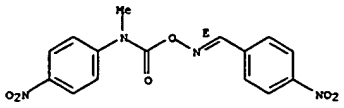
Double bond geometry as shown.



RN 65786-08-5 CAPLUS

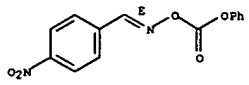
L12 ANSWER 52 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN Benzaldehyde, 4-nitro-, O-[[methyl(4-nitrophenyl)amino]carbonyl]oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 53 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The pyrolysis of (E)-p-RC6H4CH:NOCO2C6H4R1 at 100-20.degree. to give nitriles followed 1st order kinetics and the decompn. rates showed little dependence on inductive effects or solvent polarity. Low entropy values along with the fact that the E and Z-isomers behaved quite differently led to the proposal of a cyclic transition state for the decompns.
ACCESSION NUMBER: 1976:89302 CAPLUS
DOCUMENT NUMBER: 84:89302
TITLE: The mechanism for the thermal decomposition of E-aldoxime carbonates
AUTHOR(S): Prokipcak, J. M.; Forte, P. A.
CORPORATE SOURCE: Dep. Chem., Univ. Guelph, Guelph, ON, Can.
SOURCE: Canadian Journal of Chemistry (1975), 53(22), 3481-6
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 58539-31-4
RL: PRP (Properties)
(thermodecompn. of, kinetics of)
RN 58539-31-4 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(phenoxycarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

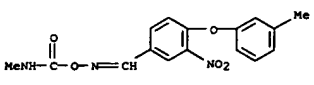
Double bond geometry as shown.



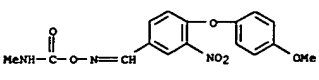
L12 ANSWER 54 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Diphenyl ether derivs. (I; R = lower alkyl; R1 to R4 = H, halo, lower alkyl, lower alkoxy; n = 0-1; a, b = 0-1; a + b = 1-2) were prepd. by reaction of II with RNCO or RNHCOCl. I had insecticidal, anticarcinogenic, and antibacterial activities. Thus, 6.0 g MeNCO and trace Et3N were added to 30.0 g p-(2-nitro-4-chlorophenoxy)benzaldehyde in THF and the mixt. refluxed 1 hr to give 27.5 g O-methylcarbamoyl-p-(2-nitro-4-chlorophenoxy)benzaldoxime. Among 13 more I prepd. were O-methylcarbamoyl-3-nitro-4-(m-tolyloxy)-, O-methylcarbamoyl-3-nitro-4-(p-methoxyphenoxy)-, O-methylcarbamoyl-3-nitro-4-phenoxy-, and O-methylcarbamoyl-3-nitro-4-(o-chlorophenoxy)benzaldoximes.
ACCESSION NUMBER: 1975:458415 CAPLUS
DOCUMENT NUMBER: 83:58415
TITLE: Diphenyl ether derivatives
INVENTOR(S): Kotani, Akeshi; Inamasu, Shuji
PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50012047	A2	19750207	JP 1973-62203	19730601

PRIORITY APPLN. INFO.: JP 1973-62203 19730601
IT **56135-51-4P 56135-52-5P 56135-53-6P 56135-54-7P 56135-55-8P 56135-56-9P 56135-57-0P 56135-61-6P 56135-62-7P 56135-63-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 56135-51-4 CAPLUS
CN Benzaldehyde, 4-(3-methylphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

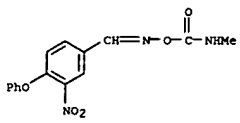


RN 56135-52-5 CAPLUS
CN Benzaldehyde, 4-(4-methoxyphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

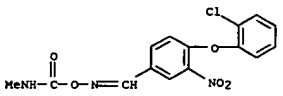


RN 56135-53-6 CAPLUS

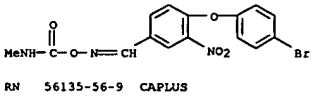
L12 ANSWER 54 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN Benzaldehyde, 3-nitro-4-phenoxy-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



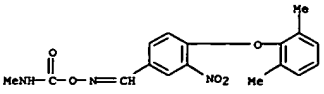
RN 56135-54-7 CAPLUS
CN Benzaldehyde, 4-(2-chlorophenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-55-8 CAPLUS
CN Benzaldehyde, 4-(4-bromophenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

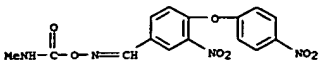


RN 56135-56-9 CAPLUS
CN Benzaldehyde, 4-(2,6-dimethylphenoxy)-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

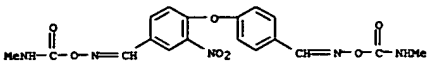


RN 56135-57-0 CAPLUS
CN Benzaldehyde, 3-nitro-4-(4-nitrophenoxy)-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

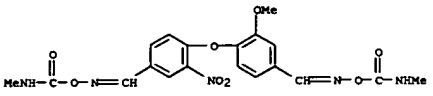
L12 ANSWER 54 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



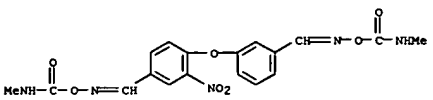
RN 56135-61-6 CAPLUS
CN Benzaldehyde, 4-[4-[[[[(methylamino)carbonyl]oxy]imino]methyl]phenoxy]-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-62-7 CAPLUS
CN Benzaldehyde, 3-methoxy-4-[4-[[[[(methylamino)carbonyl]oxy]imino]methyl]-2-nitrophenoxy]-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 56135-63-8 CAPLUS
CN Benzaldehyde, 4-[3-[[[[(methylamino)carbonyl]oxy]imino]methyl]phenoxy]-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 55 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Twenty-three mixts. of the oximes I [R = R1 = R2 = Me, R3 = Cl, R4 = H (II)] or III [R = Me, R1 = iodine (IV)] with each other, with other I (R = Me, H, or Ph; R1 = Ph, Me2CHCH2, or 3-02NC6H4; or RR1 = CH:CMeCH2CMe2CH2; R2 = H or Me, R3 = Cl or Me, R4 = H or Cl) or III (R = Me, MeCHEt, or Me2CH; R1 = iodine, Cl or Br) or with 3-RCONHC6H4O2CNR1R2 (R = MeO or Me2N, R1 = H or Me, R2 = CHMeEt, CMe3, CHMeCHMe2, or Ph) or NCCH2OC6H2R2CN-2,6,4 (R = iodine, Br, or Cl), e.g. acetone O-[2-(2,4-dichlorophenoxy)propionyl]oxime-isopropylideneamino 4-cyano-2,6-diiodophenyl carbonate mixt. (II-IV mixt.) [54841-89-3] had higher herbicidal effects than the components.
ACCESSION NUMBER: 1975:134031 CAPLUS
DOCUMENT NUMBER: 82:134031
TITLE: Herbicidal mixtures
INVENTOR(S): Boroschewski, Gerhard; Puttner, Reinhold; Arndt, Friedrich
PATENT ASSIGNEE(S): Schering A.-G.
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2303336	A1	19740725	DE 1973-2303336	19730120
DD 107571	C	19740812	DD 1973-175058	19731203
CS 178438	P	19770915	CS 1973-8535	19731210
CS 178442	P	19770915	CS 1973-5704	19731210
NO 141777	B	19800204	NO 1973-4775	19731214
NO 141777	C	19800521		
PL 91646	P	19770331	PL 1974-168032	19740110
FI 56472	B	19791031	FI 1974-115	19740116
FI 56472	C	19800211		
AU 7464605	A1	19750717	AU 1974-64605	19740117
BE 809928	A1	19740718	BE 1974-139973	19740118
NL 7400739	A	19740723	NL 1974-739	19740118
FR 2214407	A1	19740819	FR 1974-1727	19740118
ZA 7400396	A	19741127	ZA 1974-396	19740118
CH 584505	A	19770215	CH 1974-707	19740118
HU 170900	P	19770928	HU 1974-SC459	19740118
SU 580797	D	19771115	SU 1974-1991123	19740118
SE 401075	B	19780424	SE 1974-666	19740118
SE 401075	C	19780803		
RO 68496	B	19790815	RO 1974-77325	19740118
RO 68496	P	19800115		
RO 69339	P	19800715	RO 1974-84790	19740118
JP 49102842	A2	19740928	JP 1974-9177	19740121
AT 7400466	A	19751115	AT 1974-466	19740121
AT 331555	B	19760825		
GB 1460663	A	19770106	GB 1974-2726	19740121
CA 1013961	A1	19770719	CA 1974-190523	19740121
PL 92143	P	19770331	PL 1974-184009	19740810
SU 667094	D	19790605	SU 1975-2126029	19750418
DK 7502198	A	19750818	DK 1975-2198	19750516
AT 7504032	A	19760215	AT 1975-4032	19750527
AT 333073	B	19761110		

PRIORITY APPLN. INFO.: DE 1973-2303336 19730120

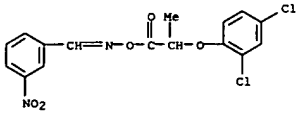
L12 ANSWER 55 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

	DK 1973-6311	19731122
	AT 1974-466	19740121

IT **54842-02-3**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicide)
RN 54842-02-3 CAPLUS
CN Benzonitrile, 3,5-diiodo-4-[[[[(1-methylethylidene)amino]oxy]carbonyl]oxy]-, mixt. with 3-nitrobenzaldehyde O-[2-(2,4-dichlorophenoxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

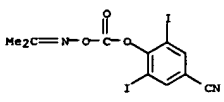
CM 1

CRN 53443-08-6
CMF C16 H12 Cl2 N2 O5



CM 2

CRN 50347-98-3
CMF C11 H8 I2 N2 O3

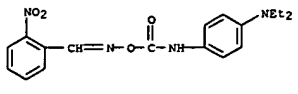


L12 ANSWER 56 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Compds. obtained by condensation of an oxime with an isocyanate are converted to amines by photolysis or thermolysis. This reaction can be visualized by a dye formation in the presence of a phenolic coupler and an oxidant, the color change of an indicator dye, or by fluorescence emission. Thus, a soln. contg. PhCH:NOCONH-p-C6H4NEt2, prepd. by condensing p-diethylaminophenyl isocyanate with benzdoxime in Et2O, 100, a phenolic coupler 100, m-chloroperbenzoic acid 40 mg, and a 5% poly(Me methacrylate) soln. in CH2Cl2 8 ml was coated on a BaSO4-impregnated paper support at 6g/m2, dried, and exposed to a 1 kw uv lamp at 10 cm for 5 sec, or passed through a Thermofax copier to produce a cyan copy.
ACCESSION NUMBER: 1975:92073 CAPLUS
DOCUMENT NUMBER: 82:92073
TITLE: Recording materials and process
INVENTOR(S): Mertens, Ludovicus M.
PATENT ASSIGNEE(S): Agfa-Gevaert
SOURCE: Belg., 30 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 810213	A2	19740729	BE 1974-1005673	19740128
GB 1458355	A	19761215	GB 1973-4845	19740122
US 3918973	A	19751111	US 1974-437762	19740130

PRIORITY APPLN. INFO.: GB 1973-4845 19730131

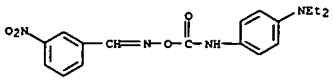
IT **54711-46-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54711-46-5 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[[[4-(diethylamino)phenyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)



L12 ANSWER 57 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Compds. R1R2C:NOCONR3R4(R1,R2,R3,R4 = H, alkyl, aryl, or heterocyclic groups) which upon exposure to an arc lamp or to heat liberate an amine capable of undergoing color reactions are used in photog. or thermog. recording compns. The amine precursors are coated with a polymeric binder on a paper or film support. Thus, BaSO4-impregnated paper was coated with 6 g/m2 of a mixt. of PhCH:NO-CONHC6H4NEt2-p100, I 100, m-chlorobenzoic acid 40 mg, and a 5% soln. of poly(Me methacrylate) in CH2Cl2 8 ml. A 5 sec exposure of the paper to a 1 kW Hg lamp at 10 cm or in a Thermofax copier yielded cyan copies.
ACCESSION NUMBER: 1975:49921 CAPLUS
DOCUMENT NUMBER: 82:49921
TITLE: Recording with photolytic and/or thermolytic formation of amino compounds
INVENTOR(S): Mertens, Ludovicus L.
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G.
SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2403100	A1	19740801	DE 1974-2403100	19740123
GB 1458355	A	19761215	GB 1973-4845	19740122
US 3918973	A	19751111	US 1974-437762	19740130

PRIORITY APPLN. INFO.: GB 1973-4845 19730131
IT 54654-58-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54654-58-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[[4-(diethylamino)phenyl]amino]carbonyl]oxime (9CI) (CA INDEX NAME)

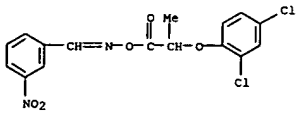


L12 ANSWER 58 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Ninety-two ketoxime esters RnC6H5-nOCHR1-CO2N:CR2R3 [I, Rn = 2,4-Cl2, 2,4,5-Cl3, 3-Cl, 2,4-MeCl, 4-Br; R1 = H or Me; R2 = Me, H, Ph, Et, CH2CHMe2, or Pr; R3 =CHMeEt, Me, Ph, CH2CHMe2, C6H4NO2-3, Et, Pr, CHMe2, Bu, CH2OPh, C6H13, or CH2CH2OMe; or R2R3 = CH:CMeCH2CMe2CH2, (CH2)5, CH:CMeCH2CHMeCH2, (CH2)4, or CH2CHMeCH2CH2] were prepd. and used for weed control in plant cultures esp. in lawn. Thus, addn. of 2,4-Cl2C6H3OCH2-COCl to HON:CMeCHMeEt and Et3N in MeCN gave 92% I (Rn = 2,4-Cl2, R1 = H, R2 = Me, R3 = CHMeEt).
ACCESSION NUMBER: 1974:535752 CAPLUS
DOCUMENT NUMBER: 81:135752
TITLE: Herbicidal O-phenoxyacetylketoximes
INVENTOR(S): Nuesslein, Ludwig; Arndt, Friedrich
PATENT ASSIGNEE(S): Schering A.-G.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2262402	A1	19740801	DE 1972-2262402	19721215
CS 170111	P	19760827	CS 1973-7645	19731107
ES 420904	A1	19760501	ES 1973-420904	19731127
DD 108031	C	19740912	DD 1973-175052	19731203
CH 584510	A	19770215	CH 1973-17131	19731206
FI 55927	C	19791112	FI 1973-3791	19731211
FI 55927	B	19790731		
RO 68556	P	19810830	RO 1973-76956	19731211
FR 2327234	A1	19770506	FR 1973-44534	19731213
FR 2327234	B1	19780324		
BE 808636	A1	19740614	BE 1973-138864	19731214
NL 7317222	A	19740618	NL 1973-17222	19731214
JP 49086539	A2	19740819	JP 1973-140203	19731214
ZA 7309503	A	19741127	ZA 1973-9503	19731214
AT 7310483	A	19750515	AT 1973-10483	19731214
AT 328217	B	19760310		
AU 7363652	A1	19750619	AU 1973-63652	19731214
SU 525417	D	19760815	SU 1973-1978002	19731214
HU 168995	P	19760828	HU 1973-SC457	19731214
PL 91626	P	19770331	PL 1973-167329	19731214
NO 139150	C	19790131	NO 1973-4774	19731214
NO 139150	B	19781009		
GB 1458825	A	19761215	GB 1973-58373	19731217
CA 1013587	A1	19770712	CA 1973-188263	19731217
SU 511853	D	19760425	SU 1974-1998451	19740218

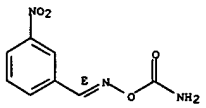
PRIORITY APPLN. INFO.: DE 1972-2262402 19721215
IT 53443-08-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicidal activity of)
RN 53443-08-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[2-(2,4-dichlorophenoxy)-1-oxopropyl]oxime (9CI)
(CA INDEX NAME)

L12 ANSWER 58 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



L12 ANSWER 59 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The structures assigned to the nitrones prepd. from aromatic aldehydes and solns. of potassium cyanate and hydroxylamine hydrochloride are shown to be incorrect and the deoxygenation reaction ascribed to them spurious. The correct product from the original reaction is demonstrated to be the corresponding O-carbamoyl oxime.
ACCESSION NUMBER: 1974:14448 CAPLUS
DOCUMENT NUMBER: 80:14448
TITLE: O-Carbamoyl oximes
AUTHOR(S): Dalton, David R.; Foley, H. Grant
CORPORATE SOURCE: Dep. Chem., Temple Univ., Philadelphia, PA, USA
SOURCE: Journal of Organic Chemistry (1973), 38(24), 4200-3
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 41514-44-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 41514-44-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

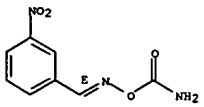
Double bond geometry as shown.



L12 ANSWER 60 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB RC6H4CHO (R = 4-Br, 4-Cl, 3-O2N) with HONH2.HCl and KOCN gave the O-carbamolyl oximes (E)- RC6H4CH:NOCONH2 (I) and not RC6H4CN:N(O)CONH2 (Bellavita, V.; Cagnoli, N.; 1939). Ii with CNn- gave the oximes (E)-RC6H4CH:NOH (II). IIi, and their (Z)-isomers, with ClO2SNCO, followed by hydrolysi gave I. The configuration of I (R = 4-Br) was confirmed by x-ray anal. The monoclinic crystals, space group P21/c had a 14.39, b 5.101, c 12.5 .ANG., .beta. 99.51.degree., Z = 4. The structure was solved by Patterson and Fourier methods.

ACCESSION NUMBER: 1973:147493 CAPLUS
DOCUMENT NUMBER: 78:147493
TITLE: Unusual nitrones
AUTHOR(S): Dalton, D. R.; Foley, Henry G.; Trueblood, Kenneth N.; Murphy, Michael R.
CORPORATE SOURCE: Dep. Chem., Temple Univ., Philadelphia, PA, USA
SOURCE: Tetrahedron Letters (1973), (10), 779-82
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 41514-44-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 41514-44-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-(aminocarbonyl)oxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

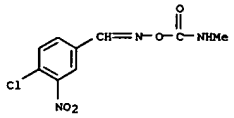


L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB Thirty title compds. [I, R = Cl-4 alkyl, tetradecyl, MeOCH2, allyl, cyclohexyl, substituted phenyl; R1 = H, Me, or 4,3-Cl(O2N)C6H3; R2 = H, 2-Me, 2- or 4-Cl; R3 = 2, 3, or 4-NO2], used as selective herbicides in beet cultures, were prepd. by reaction of oximes with isocyanates. Thus, m-O2NC6H4CH:NOH reacted with OCNMe in MeCN in the presence of Et3N at .ltoreq.30.degree. to give 74.0% I (R = Me, R1 = R2 = H, R3 = 3-NO2) (II).
In postemergent tests 8 kg II/ha killed all Galinsoga parviflora or Urtica urens without affecting beet plants.

ACCESSION NUMBER: 1973:29498 CAPLUS
DOCUMENT NUMBER: 78:29498
TITLE: Herbicidal nitrobenzaldoxime carbamates
INVENTOR(S): Stoelzer, Claus; Schmidt, Robert Rudolf
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

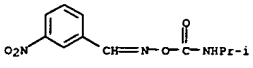
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2120087	A	19721109	DE 1971-2120087	19710424

PRIORITY APPLN. INFO.: DE 1971-2120087 19710424
IT 39089-83-3P 39089-84-4P 39089-85-5P 39089-86-6P 39089-87-7P 39089-88-8P 39089-89-9P 39089-90-2P 39089-91-3P 39089-94-6P 39089-95-7P 39089-96-8P 39089-97-9P 39089-98-0P 39089-99-1P 39090-00-1P 39090-01-2P 39090-02-3P 39090-04-5P 39090-06-7P 39102-00-6P 39102-01-7P 39102-02-8P 39102-03-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 39089-83-3 CAPLUS
CN Benzaldehyde, 4-chloro-3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

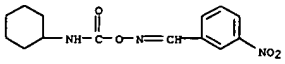


RN 39089-84-4 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(1-methylethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

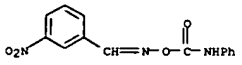
L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



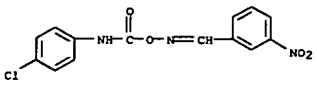
RN 39089-85-5 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(cyclohexylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



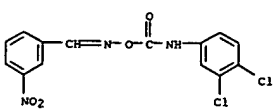
RN 39089-86-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(phenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39089-87-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-chlorophenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

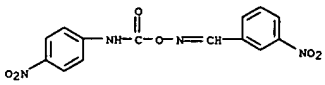


RN 39089-88-8 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(3,4-dichlorophenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

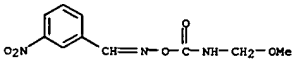


RN 39089-89-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-nitrophenyl)amino]carbonyl]oxime (9CI) (CA

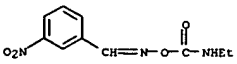
L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)



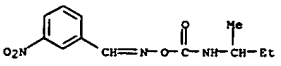
RN 39089-90-2 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(methoxymethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



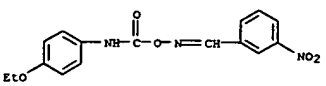
RN 39089-91-3 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(ethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 39089-94-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(1-methylpropyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

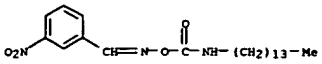


RN 39089-95-7 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[[(4-ethoxyphenyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)

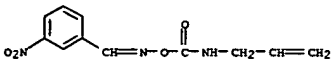


RN 39089-96-8 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(tetradecylamino)carbonyl]oxime (9CI) (CA

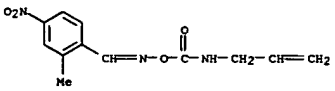
L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
INDEX NAME)



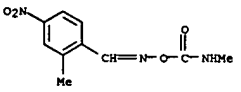
RN 39089-97-9 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(2-propenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



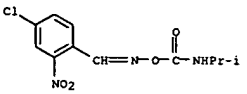
RN 39089-98-0 CAPLUS
CN Benzaldehyde, 2-methyl-4-nitro-, O-[(2-propenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



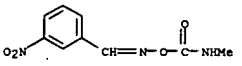
RN 39089-99-1 CAPLUS
CN Benzaldehyde, 2-methyl-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA
INDEX NAME)



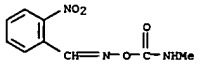
RN 39090-00-1 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[[(1-methylethyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



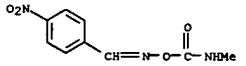
L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
NAME)



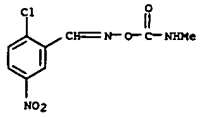
RN 39102-01-7 CAPLUS
CN Benzaldehyde, 2-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



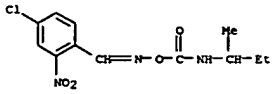
RN 39102-02-8 CAPLUS
CN Benzaldehyde, 4-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



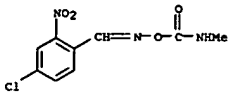
RN 39102-03-9 CAPLUS
CN Benzaldehyde, 2-chloro-5-nitro-, O-[(methylamino)carbonyl]oxime (9CI)
(CA
INDEX NAME)



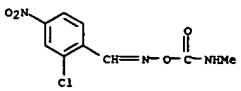
L12 ANSWER 61 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 39090-01-2 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[[(1-methylpropyl)amino]carbonyl]oxime (9CI) (CA INDEX NAME)



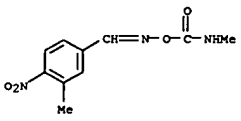
RN 39090-02-3 CAPLUS
CN Benzaldehyde, 4-chloro-2-nitro-, O-[(methylamino)carbonyl]oxime (9CI)
(CA
INDEX NAME)



RN 39090-04-5 CAPLUS
CN Benzaldehyde, 2-chloro-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI)
(CA
INDEX NAME)



RN 39090-06-7 CAPLUS
CN Benzaldehyde, 3-methyl-4-nitro-, O-[(methylamino)carbonyl]oxime (9CI)
(CA
INDEX NAME)

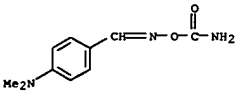


RN 39102-00-6 CAPLUS
CN Benzaldehyde, 3-nitro-, O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX

L12 ANSWER 62 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB The oximes p-RC6H4CH:NOCONH2 (R = NMe2, Cl, OMe) were obtained in 55% yield by treating p-RC6H4CHO with NH2OH and KCNO. Hydrolysis of p-RC6-H4CH:NOCONH2 with KCN or Na2CO3 gave p-RC6H4CH:NOH. Treatment of p-ClC6H4CH:NOH with 2-tetrahydropyranyl isocyanate of ClSO2NCO gave I or p-ClC6H4CH:NOCONHSO2Cl, resp., both or which were hydrolized to p-ClC6H4CN.

ACCESSION NUMBER:	1972:448002 CAPLUS
DOCUMENT NUMBER:	77:48002
TITLE:	Hydroxylamine derivatives. 50. N-Carbamoyl oximes
AUTHOR(S):	Zinner, Gerwalt; Ruthe, Helga
CORPORATE SOURCE:	Inst. Pharm. Chem., Tech. Univ. Braunschweig, Brunswick, Fed. Rep. Ger.
SOURCE:	Chemiker-Zeitung (1972), 96(5), 287-8 CODEN: CMXZAT; ISSN: 0009-2894
DOCUMENT TYPE:	Journal
LANGUAGE:	German

IT **38927-03-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38927-03-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-(aminocarbonyl)oxime (9CI) (CA INDEX NAME)

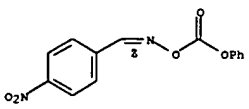


L12 ANSWER 63 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB A new synthesis of nitriles is reported based on the pyrolysis of oxime carbonates.

ACCESSION NUMBER: 1971:404873 CAPLUS
DOCUMENT NUMBER: 75:4873
TITLE: Pyrolysis of oxime carbonates: novel conversion of aldehydes into nitriles under mild conditions
AUTHOR(S): Prokipcak, Joseph M.; Forte, P. A.
CORPORATE SOURCE: Dep. Chem., Univ. Guelph, Guelph, ON, Can.
SOURCE: Canadian Journal of Chemistry (1971), 49(8), 1321-2
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 33620-19-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and pyrolysis of)
RN 33620-19-8 CAPLUS
CN Benzaldehyde, p-nitro-, O-carboxyoxime phenyl ester, (Z)- (8CI) (CA INDEX NAME)

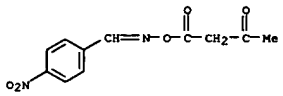
Double bond geometry as shown.



L12 ANSWER 64 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The hydrolyses of carboxylic acid esters were studied kinetically to further establish the ElcB mechanism as an acyl transfer path for esters. The principal feature of this mechanism is elimination of the leaving group from the carbanion formed from the ester by ionization at a position .alpha. to the ester group. Such carbanion species were observed spectrophotometrically with all of the above esters and appeared during hydrolysis under conditions ranging from steady state through fast preequil. The nature of the leaving group has emerged as an extremely important factor in detg. the relative contributions of the ElcB and BAc2 mechanisms. Yields of acetoacetanilide obtained from hydrolysis of p-nitrophenyl acetoacetate in the presence of aniline buffers have been examd. in detail and compared with the kinetics of p-nitrophenol release. These results as well as those establishing a change of rate-limiting step with increase in general base concn. and the D solvent isotope effect are fully in accord with an ElcB hydrolysis mechanism which proceeds by way of a transient free ketene after elimination of the leaving group from the carbanion.

ACCESSION NUMBER: 1970:519837 CAPLUS
DOCUMENT NUMBER: 73:119837
TITLE: The carbanion mechanism (ElcB) of ester hydrolysis. III. Some structure-reactivity studies and the ketene intermediate
AUTHOR(S): Pratt, R. F.; Bruice, Thomas C.
CORPORATE SOURCE: Dep. of Chem., Univ. of California, Santa Barbara, CA, USA
SOURCE: Journal of the American Chemical Society (1970), 92(20), 5956-64
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

IT 29817-01-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrolysis of, mechanism of)
RN 29817-01-4 CAPLUS
CN Benzaldehyde, p-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)



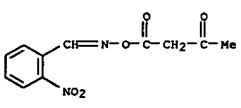
L12 ANSWER 65 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The subject compds., prepd. by the reaction of an aldoxime or ketoxime with diketene, show bactericidal activity. Thus, 36.6 g of a 55% soln. of diketene in Me2CO is added to 8.8 g (CH:NOH)2 in 143 g Et2O contg. 0.2 g triethylenediamine over 1 hr at 25-35.degree.. After 2 hr the mixt. is extd. with 5% aq. Na2CO3 to yield 20.2 g bis(O-acetoacetyl)glyoxime, m. 128-30.degree. (cyclohexane). The O-(acetoacetyl)oximes of the following carbonyl compds. are similarly prepd. (m.p. and yield in g given): Ph-CHO (I), 60-1.degree., 63.4; 3,4-ClC6H3CHO (II), 84-6.degree., 40.1; 2-O2NC6H4CHO 63-6.degree., 11.1; Ph2CO, 68-70.degree., 16.2; 3-chloro-7-cyanonorbornan-2-one, 87-9.degree., 12.3. I gives partial and II gives complete control of Staphylococcus aureus, Escherichia coli, Erwinia amylovora, and Xanthomonas malvacearum at 250 ppm in potato dextrose agar culture tests.

ACCESSION NUMBER: 1970:43163 CAPLUS
DOCUMENT NUMBER: 72:43163
TITLE: O-Acetoacetyl oximes
INVENTOR(S): Marcus, Erich; Hughes, John L.
PATENT ASSIGNEE(S): Union Carbide Corp.
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3483231	A	19691209	US 1966-529217	19660223

PRIORITY APPLN. INFO.: US 1966-529217 19660223

IT 14146-72-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 14146-72-6 CAPLUS
CN Benzaldehyde, o-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)



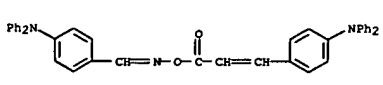
L12 ANSWER 66 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB Title compds. are useful photoconductors in production of electrophotographic recording materials. Thus, to a soln. of 50 g 4-acetyltriphenyl-amine in tetrahydrofuran 3 equiv. aq. KClO2 was added under stirring. After 2 hr, concd. HCl was added, the ppt. filtered, and recrystd. from EtOH to give 72% p-Ph2NC6H4R (I, R = CO2H), m. 202-4.degree.. The following I were prepd. (R and m.p. given): CO2Me, 88.5-9.5.degree.; C 6H2(CO2Et)Ph2-4,3,5, 64-6.degree.; CH(OH)CH2C.tplbond.CH, ; CH2 oH, 93-4.degree.; C2H4OH, 121.degree.; CH(:NOH), 168-9.degree.; CMe(:NOH), 140-1.degree.; C6H12OH, (oil); C12H24OH, (oil); C2H4CO2H, 126-8.degree.; CONPh2, ; OH, 126-8.degree.; 2-OMe, 103-5.degree.; 2-OH, 106-8.degree.; CH(:NNHCONH2) 185-7.degree.; CMe(:NNHCONH2), 177-8.degree.. Also prepd. were the following 4-Ph2NC6H4(CR1:CR2)nX (R1, R2, n, X, and m.p. given): H, H, 1, CO2H, 175.7-7.7.degree.; H, H, 1, CO2Et, 70-2.degree.; H, H, 1, COCl, 122-4.degree.; H, H, 1, CONPh2, 201.5-3.5.degree.; H, H, 1, CO(O)COCH:CHC6H4NPh2-4, 152-6.degree.; Me, H, 1, CO2H, 191-2.degree.; H, C(CO2H):CHC6H4NPh2-4, 1, CO2H, 211-14.degree.; H, H, 1, H, (b0.cntdot.12 138.degree.); H, H, 1, CH(:NOH), 134-6.degree.; H, H, 2, CO2H, 86-91.degree.; H, H, 1, CO2N:CHC6H4NPh2-4, 174-8.degree.; H, H, 1, CO2CH2C6H4NPh2, 68-70.degree.; H, H, 2, CH(:NOH), ; H, H, 1, CO2Me, 108-9.degree.. Also prepd. was 1-(4-diphenylamino)-naphthacrylic acid, m. 247-8.degree., and 4-[N,N-bis(p-bromophenyl)-amino]cinnamic acid, m. 156-9.degree..

ACCESSION NUMBER: 1970:31416 CAPLUS
DOCUMENT NUMBER: 72:31416
TITLE: Substituted triarylamines with improved photoconductivity
INVENTOR(S): Brantly, Thomas B.; Fox, Charles J.
PATENT ASSIGNEE(S): Eastman Kodak Company
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1908346	A	19691113	DE 1969-1908346	19690219
FR 2002221	A5	19691017	FR 1969-3822	19690217
BR 6906472	A0	19730118	BR 1969-206472	19690219
GB 1258094	A	19711222	GB 1969-1258094	19690220

PRIORITY APPLN. INFO.: US 1968-706799 19680220
US 1968-706780 19680220

IT 25069-78-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25069-78-7 CAPLUS
CN Benzaldehyde, p-(diphenylamino)-, O-[p-(diphenylamino)cinnamoyl]oxime (8CI) (CA INDEX NAME)



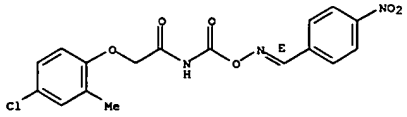
AB The title reaction proceeds vigorously at room temp. Aliphatic aldoximes, such as MeCH:NOH, give with RCONCO (I) (R is CH2F, CH2Cl, Et, PhOCH2, o-MeC6H4OCH2, o,p-Cl2C6H3OCH2, p-O2NC6H4OCH2, Ph, p-ClC6H4, or p-O2NC6H4) at room temp. only the corresponding RCONH2, MeCN, and CO2. The products of the aromatic aldoximes R1CH:NOH with I are RCONHCO2N:CHR1 (II) (R and R1 given): CH2F, Ph; CH2Cl, Ph; Et, Ph; PhOCH2, Ph; o-MeC6H4OCH2, Ph; o,p-Me-ClC6H3OCH2, Ph; o,p-MeClC6H3OCH2, Ph; o,p-Cl2C6H3OCH2, Ph; p-O2NC6H4OCH2, Ph; Ph, Ph; p-ClC6H4, Ph; p-O2NC6H4, Ph; p-O2NC6H4, p-O2NC6H4; o,p-Cl2C6H4, p-O2NC5H4; p-O2-NC6H4OCH2, p-Me2NC6H4; p-O2NC6H4, p-Me2NC6H4. However, at -5.degree. to 0.degree., MeCH:NOH reacted with I (R = o,p-Me-ClC6H3OCH2) to give 70% II (R = o,p-MeClC6H3OCH2, R1 = Me). The reaction at room temp. gave only o,p-MeClC6H3-OCH2CONH2, MeCN, and CO2. The hydrolysis of II with NaOH gave RCO2H and R1CH:NOH, which proves that stable II exist only in syn configuration.

ACCESSION NUMBER: 1969:438478 CAPLUS
DOCUMENT NUMBER: 71:38478
TITLE: Acylisocyanates and their derivatives. III. Reaction of aldoximes with acyl isocyanates
AUTHOR(S): Nuridzhanyan, K. A.; Nesterova, L. M.; Vasil'ev, A. F.; Negrebetskii, V. V.
CORPORATE SOURCE: Vses. Nauch.-Issled. Inst. Khim. Sredstv Zashchity Rast., Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1969), 5(5), 869-74
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian

IT **22998-04-5P 22998-05-6P 22998-06-7P 22998-07-8P 22998-08-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

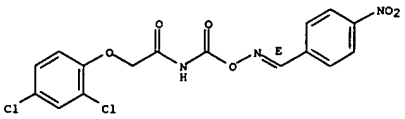
RN 22998-04-5 CAPLUS
CN Benzaldehyde, p-nitro-, O-[[[(4-chloro-o-tolyl)oxy]acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



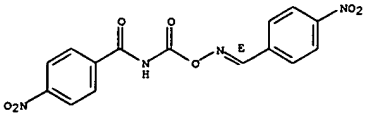
RN 22998-05-6 CAPLUS
CN Benzaldehyde, p-nitro-, O-[[(2,4-dichlorophenoxy)acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



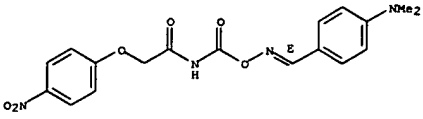
RN 22998-06-7 CAPLUS
CN Benzaldehyde, p-nitro-, O-[(p-nitrobenzoyl)carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



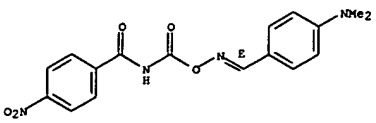
RN 22998-07-8 CAPLUS
CN Benzaldehyde, p-(dimethylamino)-, O-[[(p-nitrophenoxy)acetyl]carbamoyl]oxime, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22998-08-9 CAPLUS
CN Benzaldehyde, p-(dimethylamino)-, O-[(p-nitrobenzoyl)carbamoyl]oxime, (E)-
(8CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 68 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB The title compds. useful as insecticides, animal systemic parasiticides, herbicides, and foliage fungicides have the formula I. The intermediate 3-(diethoxyphosphinothioyl) benzaldehyde (II), n30D 1.5239 was prepd. in 99.5% yield by refluxing 24.4 g. 3-hydroxybenzaldehyde, 37.8 g. O,O-diethylphos-phorochloridothioate, and 16.4 g. K2CO3 in 200 ml. Me Et ketone 4 hrs., the mixt. poured into 300 ml. H2O and twice extd. with CHCl3, 7.5 g. Na2CO3.H2O added to a mixt. of 27.4 g. II and 7.6 g. hydroxylamine hydrochloride in 300 ml. H2O at room temp. in 20 min., and the mixt. stirred one hr. and extd. with C6H6 to give 68.3% 3-(diethoxyphosphinothioyl)benzaldoxime (III), n30D 1.5460. III (10 g.) in 10 ml. acetone was treated with excess MeNCO and poured into 200 ml. C6H6 to give 93.3% 3-(dieth-oxyphosphinothioyl) benzaldoxime methylcarbamate, n30D 1.5394. Similarly prepd. in 96.9% yield was 4'-(diethoxyphosphino-thioyl)acetophenone oxime methylcarbamate. A mixt. of 56.2 g. 4'-(diethoxyphosphinothioyl)acetophenone, 17.4 g. hydroxylamine hydrochloride, and 4 g. NaOH in 150 ml. 80% EtOH was refluxed 5 min., cooled, and acidified with concd. HCl to give 93.5% 4'-(diethoxyphosphinothioyl)acetophenone oxime (IV), n30D 1.5393. A mixt. of 10.0 g. IV, 3.2 g. AcCl, 4.1 g. Et3N, and 150 ml. C6H6 was refluxed one hr. to give 96.5% 4'-(diethoxy-phosphinothioyl)acetophenone oxime acetate, n30D 1.5279. A soln. of 14.5 g. 4-(diethoxyphosphinothioyl)benzaldoxime. (V) in 50 ml. Et2O was added in 30 min. at 10.degree. to 7 g. phosgene in 150 ml. Et2O, the mixt. stirred one hr. at 15.degree., a soln. of 17.4 g. morpholine in 10 ml. H2O added at <15.degree., and the mixt. stirred two hrs. at room temp. and worked up to give 89.8% 4-(diethoxy-phosphinothioyl)benzaldoxime 4-morpholinecarboxylate, n30D 1.5423. Similarly 14.5 g. V, 7 g. phosgene, and 8.6 g. N,N-dimethylaniline treated with 6.1 g. ethanolamine and 10 ml. H2O at <15.degree. gave 94.8% 4-(diethoxyphosphinothioyl)benzaldoxime (.beta.-hydroxyethyl)carbamate (VI), n30D 1.5423. A soln. of 11.6 g. N,N-diethylethylenediamine in 10 ml. H2O was added dropwise at <15.degree. to VI in Et2O soln. to give 51.8% 4-(diethoxyphos-phinothioyl)benzaldoxime 2-(diethylamino)ethyl carbamate, n30D 1.5310. These procedures were followed to obtain the tabulated I (X = S, p = position of phenyl substitution by R2C:NOR3 relative to P-contg. group). The following VII were likewise prepd. (R, R1, and n30D given): H, CONHMe, 1.5280; H, CONHBu, 1.5130; Me, CONHMe, 1.5243; Me, CONHPr-iso, 1.5109. The compds. prepd. were tested as pre- and postemergent herbicides, as foliage fungicides, as insecticides, and for internal animal systematic activity.

ACCESSION NUMBER: 1969:430236 CAPLUS
DOCUMENT NUMBER: 71:30236
TITLE: (O-Carbamoyl oxime), phosphate, phosphonate, and phosphinate compositions and their utility as herbicides and pesticides
INVENTOR(S): Gutman, Arnold D.
PATENT ASSIGNEE(S): Stauffer Chemical Co.
SOURCE: S. African, 80 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

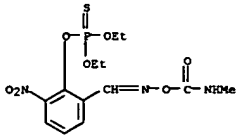
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6803662		19681108		

L12 ANSWER 68 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

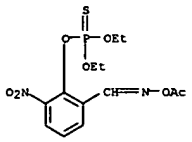
PRIORITY APPLN. INFO.: US 19670616
US 19680520

IT 22936-26-1P 22936-27-2P 22936-28-3P
22936-40-9P 22936-41-0P 22939-83-9P
22939-85-1P 22939-86-2P 23107-33-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

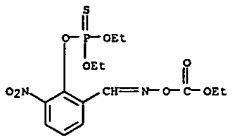
RN 22936-26-1 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22936-27-2 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-acetyloxime (8CI) (CA INDEX NAME)



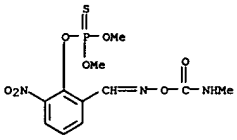
RN 22936-28-3 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(ethoxycarbonyl)oxime (8CI) (CA INDEX NAME)



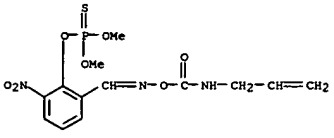
RN 22936-40-9 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl ester, O-ester with

L12 ANSWER 68 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

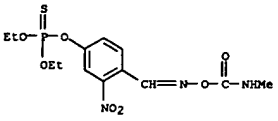
3-nitrosalicylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22936-41-0 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl ester, O-ester with 3-nitrosalicylaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)

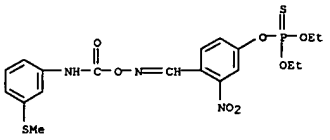


RN 22939-83-9 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)

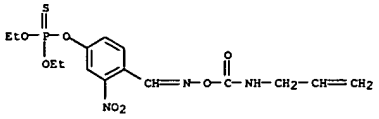


RN 22939-85-1 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-[[m-(methylthio)phenyl]carbamoyl]oxime (8CI) (CA INDEX NAME)

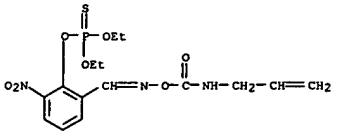
L12 ANSWER 68 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



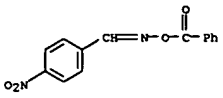
RN 22939-86-2 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 4-hydroxy-2-nitrobenzaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)



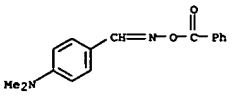
RN 23107-33-7 CAPLUS
CN Phosphorothioic acid, O,O-diethyl ester, O-ester with 3-nitrosalicylaldehyde O-(allylcarbamoyl)oxime (8CI) (CA INDEX NAME)



L12 ANSWER 69 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The pyrolytic elimination of BzOH from 8 substituted benzoyl-.alpha.-benzaldoximes to yield the corresponding substituted benzonitriles shows first-order kinetics in 5 solvents. The plot of log k vs. .sigma. is linear for this reaction in the solvents Tetralin, o-di-chlorobenzene, Me2SO, and AcNHMe, but not HCONMe2, in which competing base catalysis by the solvent occurs. Thermodynamic parameters and small neg. values for .rho. indicate that the reaction mechanism is essentially synchronous. Catalysis by a wide range of metal salts was observed. 26 references.
ACCESSION NUMBER: 1968:29150 CAPLUS
DOCUMENT NUMBER: 68:29150
TITLE: Pyrolysis of benzoyl-.alpha.-benzaldoximes. I. Effect of substitution, solvents, and catalysts
AUTHOR(S): Hill, John H. M.; Schmookler, Linda D.
CORPORATE SOURCE: Hobart and William Smith Colleges, Geneva, NY, USA
SOURCE: Journal of Organic Chemistry (1967), 32(12), 4025-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 3848-35-9 4058-69-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrolysis of, solvent and substituent effects in)
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)

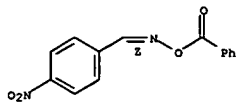


RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)

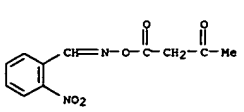


L12 ANSWER 70 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB cf. CA 63: 7904d. Dipole moments of oxime O-acyl derivs. I-VII were measured in C6H6 or dioxane soln. and configurations and conformations were detd. by means of the previously described graphical method. In all derivs. the acyl group has a stable conformation s-trans as in esters and other similar compds. In benzoyl derivs. of benzaldoximes the double bond
C:N has a stable configuration syn.
ACCESSION NUMBER: 1967:463622 CAPLUS
DOCUMENT NUMBER: 67:63622
TITLE: Oxime derivatives. IX. Determination of configuration and conformation of acylated oximes on the basis of dipole moments
AUTHOR(S): Exner, Otto; Hollerova, J.; Jehlicka, Vladimir
CORPORATE SOURCE: Ust. Fys. Chem., Vys. Skola Chem. Technol., Prague, Czech.
SOURCE: Collection of Czechoslovak Chemical Communications (1967), 32(6), 2096-103
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 18322-89-9
RL: PRP (Properties)
(stereochemistry of)
RN 18322-89-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime, [C(Z)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

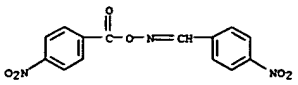


L12 ANSWER 71 OF 81 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB The reaction of diketene with oximes in the presence of 1,4-diazabicyclo[2.2.2]octane gave good yields of new derivs., of oximes, the O-acetoacetyl derivs. Attempted O-acetoacetylation of N-phenylpyruvamidoxime led to 4-acetyl-3-methyl-1-phenyl-3-pyrroline-2,5-dione 2-oxime (I) and the O-acetoacetylation of the oxime of dehydroacetic
acid gave 3,6-dimethyl-4H-pyrano [3,4-d]isoxazol-4-one.
ACCESSION NUMBER: 1967:54976 CAPLUS
DOCUMENT NUMBER: 66:54976
TITLE: Reactions of oximes with diketene
AUTHOR(S): Marcus, Erich; Chan, John K.; Hughes, John Lawrence
CORPORATE SOURCE: Chem. Div., Union Carbide Corp., South Charleston, WV,
USA
SOURCE: Journal of Chemical and Engineering Data (1967), 12(1), 151-3
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 14146-72-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 14146-72-6 CAPLUS
CN Benzaldehyde, o-nitro-, O-acetoacetyloxime (8CI) (CA INDEX NAME)



L12 ANSWER 72 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB cf. CA 59, 5167g. RC(NH2):NO2CR' (I) and RCH:NO2CR' (II) are considered to be activated esters and can be used as acylating agents. Some I and II
were compared in their reaction with PhCH2NH2 (III). The kinetic consts.,
k (min.-1), of the reaction of 0.05M p-MeOC6H4CH:NO2CC6H4NO2-p, p-O2NC6H4CO2N:CHPh, and p-O2NC6H4CO2N:CHC6H4NO2-p with 0.1M III in 1:1 dioxane-HCONMe2 at 25.degree. were found to be 2.7 .times. 10-3, 4.0 .times. 10-3, and 2.3 .times. 10-2, resp.; k of the reaction of 0.05M p-O2NC6H4C(NH2): NOAc, PhC(NH2):NOAc, p-MeOC6H4C(NH2):NOAc, and PhC(NEt2):NOAc and 0.1M III in dioxane at 25.degree. were found to be 4.9 .times. 10-3, 2.9 .times. 10-3, 1.4 .times. 10-3, and 4.4 .times. 10-4, resp.; k of 0.05M RCO2R' (IV) and 0.1M III at 25.degree. were for IV (R = Me) in dioxane: R' = p-O2NC6H4, 3.0 .times. 10-2; R' = PhC(NH2):N, 2.9 .times. 10-3; R' = NCCH2, 1.7 .times. 10-4; R' = Et, .apprx.10-6; for IV((R = Ph) [all in 1:1 dioxane-HCONMe2]: R' = p-O2NC6H4, 3 .times. 10-1; R' = PhC(NH2):N, 3.0 .times. 10-5; R' = NCCH2, 3.8 .times. 10-5; for IV (R = p-O2NC6H4): R' = p-O2NC6H4, .apprx.10; R' = PhC(NH2):N, 4.3 .times. 10-4; R' = NCCH2, 5.9 .times. 10-4; R' = Et, .apprx.10-7; for IV [R = 2-(5-nitrofuryl)]: R' = p-O2NC6H4, .infin.; R' = PhC(NH2):N, 4.7 .times. 10-3; R' = NCCH2, 2.1 .times. 10-2; R' = Et, 7 .times. 10-5. Dropwise addn. of 7.75 g. PhCCl:NOH in 50 ml. Et2O to 7.3 g. Et2NH in 100 ml. Et2O gave PhC(NEt)2:NOH, m. 81.degree. (petr. ether). Dropwise addn. of 0.01 mole R'COCl in 25 ml. tetrahydrofuran (THF) to 0.02 mole RC(NH2):NOH in 50 ml. THF gave 100% I, of which the following were prepd. (R, R', and m.p. given): p-MeOC6H4, Me, 102.degree. (EtOAc-C6H14); Ph, p-O2NC6H4, 220.degree. (HCONMe2-EtOH); Ph, 2-(5-nitrofuryl), 218.degree. (EtOAc). PhC(NEt2):NOAc b0.01118.degree.. Refluxing 0.02 mole the appropriate oxime and 0.02 mole p-O2NC6H4COCl in 100 ml. Et2O 3 hrs. gave 100% the following p-O2NC6H4CO2N:CHR (R' and m.p. or b.p. given): p-MeOC6H4, 171.degree. (HCONMe2-EtOH); p-O2NC6H4, 197.degree. (HCONMe2-EtOH); Me, b25 78.degree.; and 70-95% of the following NCCH2CO2R (same data): Ph, b0.6 91.degree.; p-O2NC6H4, 85.degree. (Et2O); 2-(5-nitrofuryl), 122.degree. (EtOAc-C6H14). Dropwise addn. of 0.02 mole 2-(5-nitrofuroyl) chloride in 20 ml. Et2O to 0.02 mole p-O2NC6H4OH and 0.02 mole C5H5N in 50 ml. Et2O gave 100% p-nitrophenyl 5-nitrofuroate, m. 193.degree. (HCONMe2-EtOH). The acylating power of I and II is directly related to the acidity of the OH of the alc. or oxime.
ACCESSION NUMBER: 1965:29263 CAPLUS
DOCUMENT NUMBER: 62:29263
ORIGINAL REFERENCE NO.: 62:5157g-h,5158a-e
TITLE: Activated esters. I. Aminolysis of acylated oxime and amidoxime derivatives
AUTHOR(S): Buyle, R.
CORPORATE SOURCE: Union Carbide European Res. Assocs., Brussels, Belg.
SOURCE: Helv. Chim. Acta (1964), 47(8), 2444-8
DOCUMENT TYPE: Journal
LANGUAGE: French
IT 1044-74-2, Benzaldehyde, p-nitro-, O-(p-nitrobenzoyl)oxime
(reaction with benzylamine)
RN 1044-74-2 CAPLUS
CN Benzaldehyde, 4-nitro-, O-(4-nitrobenzoyl)oxime (9CI) (CA INDEX NAME)

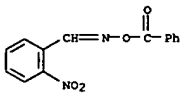
L12 ANSWER 72 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



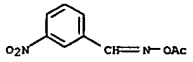
L12 ANSWER 73 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB Refluxing p-anisidine and bis(p-nitrophenyl) carbonate (I) in dioxane 1 hr., followed by diln. with H2O and 10 hrs. at room temp., gave 39% p-O2NC6H4O2CNRR' (II) (R, R', and m.p. given): H, p-MeOC6H4, 133-5.degree.; iso-Bu, H, 110.degree. (87%); p-ClC6H4, H, 161-3.degree. (99%); p-MeC6H4, H, 114.5-15.5.degree. (63%); p-HO2CC6H4, H, 179.5-80.degree. (86%); 2-pyridyl, H, 116.degree. (46%). I and Et2NH heated 1 hr. on a steam bath gave 75% II (R = R' = Et), b746 280-2.degree. (decompn.); PhNHEt and I in 2 hrs. at 150.degree. gave 52% II (R = Ph, R' = Et), m. 76.degree.; Ph2NH and I gave 19% II (R = R' = Ph), m. 139-40.degree.. I and .omicron.-HO C6H4NH2 in 3 hrs. at 100.degree. gave 46% II (R = .omicron.-HOC6H4, R' = H), m. 110-11.degree..

ACCESSION NUMBER: 1965:15144 CAPLUS
DOCUMENT NUMBER: 62:15144
ORIGINAL REFERENCE NO.: 62:2725e-f
TITLE: Synthesis of p-nitrophenyl esters of substituted carbamic acids
AUTHOR(S): Nesynov, E. P.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zh. Obshch. Khim. (1964), 34(10), 3467-9
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT **3848-29-1**, Benzaldehyde, o-nitro-, O-benzoyloxime **3848-31-5**, Benzaldehyde, m-nitro-, O-acetyloxime **3848-32-6**, Benzaldehyde, m-nitro-, O-benzoyloxime **3848-34-8**, Benzaldehyde, p-nitro-, O-acetyloxime **3848-35-9**, Benzaldehyde, p-nitro-, O-benzoyloxime **3986-36-5**, Benzaldehyde, p-(dimethylamino)-, O-acetyloxime **4058-69-9**, Benzaldehyde, p-(dimethylamino)-, O-benzoyloxime
(prepn. of)
RN 3848-29-1 CAPLUS
CN Benzaldehyde, o-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)

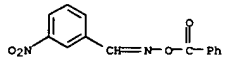


RN 3848-31-5 CAPLUS
CN Benzaldehyde, m-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)

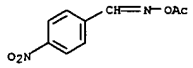


RN 3848-32-6 CAPLUS
CN Benzaldehyde, m-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)

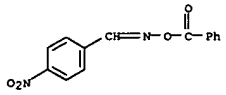
L12 ANSWER 73 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



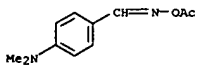
RN 3848-34-8 CAPLUS
CN Benzaldehyde, p-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)



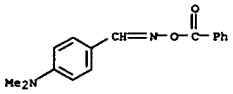
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 3986-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)



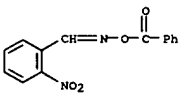
RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



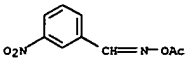
L12 ANSWER 74 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB Substances described as arylideneureas by Bellavita and Cagnoli (CA 34, 19782) were shown to be oximes of the corresponding aldehydes used for the synthesis. This conclusion was verified by ir spectra.

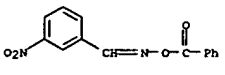
ACCESSION NUMBER: 1965:15143 CAPLUS
DOCUMENT NUMBER: 62:15143
ORIGINAL REFERENCE NO.: 62:2725e
TITLE: Synthesis of arylideneureas
AUTHOR(S): Sedova, V. F.; Mamaev, V. P.
CORPORATE SOURCE: Inst. Org. Chem., Novosibirsk
SOURCE: Izv. Akad Nauk SSSR, Ser. Khim. (1964), (10), 1892-3
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT **3848-29-1**, Benzaldehyde, o-nitro-, O-benzoyloxime **3848-31-5**, Benzaldehyde, m-nitro-, O-acetyloxime **3848-32-6**, Benzaldehyde, m-nitro-, O-benzoyloxime **3848-34-8**, Benzaldehyde, p-nitro-, O-acetyloxime **3848-35-9**, Benzaldehyde, p-nitro-, O-benzoyloxime **3986-36-5**, Benzaldehyde, p-(dimethylamino)-, O-acetyloxime **4058-69-9**, Benzaldehyde, p-(dimethylamino)-, O-benzoyloxime
(prepn. of)
RN 3848-29-1 CAPLUS
CN Benzaldehyde, o-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)



RN 3848-31-5 CAPLUS
CN Benzaldehyde, m-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)

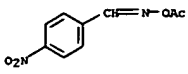


RN 3848-32-6 CAPLUS
CN Benzaldehyde, m-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)

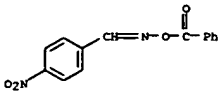


RN 3848-34-8 CAPLUS
CN Benzaldehyde, p-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)

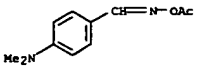
L12 ANSWER 74 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



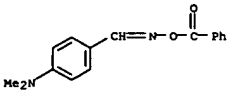
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



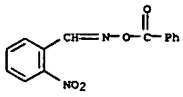
RN 3986-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)



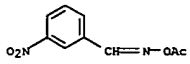
RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)



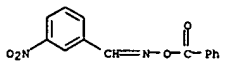
L12 ANSWER 75 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB RCONCS and Cl yield RCON:CCl2 or RCON:CClSCl depending on reactant ratio used. These react with amines, alcs., or phenols yielding the corresponding derivs. PhCON:CCl2, b12 124-6.degree., n20D 1.5670, d20 1.3345; .omicron.-ClC6H4CON:CCl2, b20 160-2.degree., 1.5824, 1.4511 (p-isomer b17 153-4.degree., 1.5900, 1.4344); PhCON:CClSCl, m. 91-2.degree.; p-ClC6H4CON:CClSCl, m. 112-14.degree.; PhCON:C(NHPh)SNHPh, m. 101-3.degree.. No details are given.
ACCESSION NUMBER: 1965:15142 CAPLUS
DOCUMENT NUMBER: 62:15142
ORIGINAL REFERENCE NO.: 62:2725d-e
TITLE: N-Acyl isothiocyanate derivatives
AUTHOR(S): Ivanova, Zh. M.; Derkach, G. I.; Kirsanova, N. A.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zh. Obshch. Khim. (1964), 34(10), 3516-18
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT 3848-29-1, Benzaldehyde, o-nitro-, O-benzoyloxime
3848-31-5, Benzaldehyde, m-nitro-, O-acetyloxime 3848-32-6
, Benzaldehyde, m-nitro-, O-benzoyloxime 3848-34-8,
Benzaldehyde, p-nitro-, O-acetyloxime 3848-35-9, Benzaldehyde,
p-nitro-, O-benzoyloxime 3986-36-5, Benzaldehyde,
p-(dimethylamino)-, O-acetyloxime 4058-69-9, Benzaldehyde,
p-(dimethylamino)-, O-benzoyloxime
(prepn. of)
RN 3848-29-1 CAPLUS
CN Benzaldehyde, o-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)



RN 3848-31-5 CAPLUS
CN Benzaldehyde, m-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)

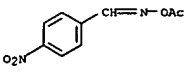


RN 3848-32-6 CAPLUS
CN Benzaldehyde, m-nitro-, O-benzoyloxime (7CI, 8CI) (CA INDEX NAME)

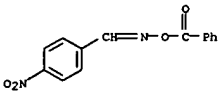


RN 3848-34-8 CAPLUS
CN Benzaldehyde, p-nitro-, O-acetyloxime (7CI, 8CI) (CA INDEX NAME)

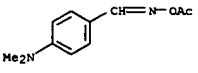
L12 ANSWER 75 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



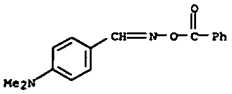
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 3986-36-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-acetyloxime (9CI) (CA INDEX NAME)

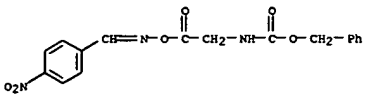


RN 4058-69-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, O-benzoyloxime (9CI) (CA INDEX NAME)

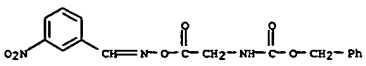


L12 ANSWER 76 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB (Cbo = PhCH2O2C throughout this abstr.) Carbobenzoxyglycine (I) reacted with a series of oximes by the anhydride method (A) (Weygand and Steglich,
CA 55, 5359b) (av. yields 70%) and with Ph2C:CO (method B) (Elmore and Smyth, CA 59, 4033a) (unfavorable results) to give aminoacyl oximes, PhCH2O2CNHCH2CO2N:CRR1, (II), whose rates of aminolysis by PhCH2NH2 were detd. in tetrahydrofuran (THF) at 22.degree.. The results were plotted and discussed from the standpoint of substituent effects on carboxyl activation. The new activation method for peptide synthesis was tested with some simple examples. The following standards were prepd. from comparative aminolysis: I thiophenyl ester, m. 72.degree., from I, PhSH, and POCl3 in abs. THF at -15.degree.; I p-nitrophenyl ester, m. 131.degree.. From I, p-O2NC6H4OH, and POCl3 in THF; and I benzyl ester, m. 71.degree., from equimolar amts. I and PhCH2Cl in boiling dioxane with excess Et3N. Method A. I (20 millimoles) and 20 millimoles abs. Et3N in 20-30 cc. THF treated with 20 millimoles ClCO2Et at -15.degree. with stirring, after 30 min. a soln. of the appropriate oxime in THF added, and
the mixt. stirred 12 hrs. at -15.degree., kept overnight at room temp., and worked up (Wieland and Heinke, CA 53, 18880f) gave II. Method B. I (20 millimoles) in THF treated with 20 millimoles Ph2C:CO and 4 cc. M THF-abs. Et3N at -15.degree., followed after several min. by 20 millimoles
appropriate oxime in THF, the soln. warmed gradually to room temp., kept overnight, and worked up, and the product recrystd. from EtOAc-petr. ether
or Me2CO-petr. ether gave II. The following II were prepd. (R, R1, and m.p. given): Me, Me (III), 110-12.degree.; (RR' =) cyclohexylidene, 80.5-1.5.degree.; H, m-O2NC6H4, 126.5-8.0.degree.; H, p-O2NC6H4, 166.5-7.5.degree.; Me, Ph, 95.5-7.0.degree.; Me, p-tolyl, 104.degree.; Me,
p-anisyl, 90.degree.; Ph, Ph (IV), 78-9.degree.; H, .alpha.-C10H7 (V), 107-8.degree.; Me, p-BrC6H4, 113-14.degree., and Me, m-O2NC6H4 (VI), 79-80.degree.. To 10 millimoles I and 10 millimoles abs. Et3N in 30 cc. THF was added 10 millimoles ClCO2Et at -15.degree. with stirring, after 30
min. 10 millimoles appropriate alc. [furfuryl alc., furfuryl mercaptan (VII), or 1-phenyl-3-methyl-5-pyrazolone (VIII)] added, the mixt. kept 5 hrs. at room temp. and worked up, and the crude product recrystd. from EtOAc-petr. ether to give I furfuryl ester, m. 70-1.degree.; carbobenzoxyglycyl ester of VII, m. 65-6.degree.; and I 1-phenyl-3-methylpyrazolyl ester (IX) (VIII bound to I as enol ester according to the ir spectrum), m. 131.degree., resp. EtO2CCH2NH2.cntdot.HCl (X.HCl) (10 millimoles) suspended in 20 cc. MeCN treated with 10 millimoles abs. Et3N, followed by 10 millimoles III in MeCN, and the mixt. kept 24 hrs. at room temp. and worked up gave 61.2% Cbo-Gly-Gly-OEt (XI), m. 81-2.degree.. Similar treatment of 10 millimoles
X.HCl in MeCN with 10 millimoles VI, V, and IX gave XI, m. 81-2.degree., in yields of 73, 85, and 75%, resp. From 50-millimoles amts. L-tyrosine Et ester-HCl (XII.HCl), IV, and abs. Et3N in MeCN was similarly prepd. 75%
Cbo-Gly-Tyr-OEt (XIII), m. 126-7.degree., [.alpha.]22D 19.1.degree. (c 3, EtOH), and from 50-millimole amts. XII.HCl and IX was similarly prepd. 90%
XIII, m. 126-7.degree., [.alpha.]22D 19.0.degree. (c 3, EtOH).
ACCESSION NUMBER: 1965:3302 CAPLUS
DOCUMENT NUMBER: 62:3302
ORIGINAL REFERENCE NO.: 62:631f-h,632a-c
TITLE: N-Protected aminoacyl oximes as new carboxyl-activated

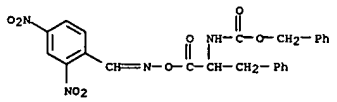
L12 ANSWER 76 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)
compounds for peptide synthesis
AUTHOR(S): Losse, Guenter; Barth, Alfred; Schatz, Karin
CORPORATE SOURCE: Univ. Halle, Germany
SOURCE: Ann. Chem. (1964), 677, 185-90
DOCUMENT TYPE: Journal
LANGUAGE: German
IT 3065-06-3, Benzaldehyde, p-nitro-, O-[N-carboxyglycyl]oxime, benzyl ester 3065-07-4, Benzaldehyde, m-nitro-, O-[N-carboxyglycyl]oxime, benzyl ester
(prepn. of)
RN 3065-06-3 CAPLUS
CN Carbamic acid, [[[[(p-nitrobenzylidene)amino]oxy]carbonyl]methyl]-, benzyl ester (8CI) (CA INDEX NAME)



RN 3065-07-4 CAPLUS
CN Carbamic acid, [2-[[[(3-nitrophenyl)methylene]amino]oxy]-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



L12 ANSWER 77 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The dissocn. consts. (as pK) of several phenols, oximes, and hydroxamic acids was detd. Many of these were condensed with benzyloxycarbonyl-L-phenylalanine (I) by the dicyclohexylcarbodiimide procedure. Then the rate of coupling of these esters was compared with an excess of PhCH2NH2 (II) in dioxane-water using as a measure of reactivity the first order half-reaction time (t/2) which was calcd. from the change of the optical d. of the reaction mixt. with time. Preparative scale reactions of phenolic esters of I with II and with HZNCH2CO2Et gave desired products in
yields above 75%. Esters of slightly acidic phenols with I reacted slowly
with amines, but 2,4,6-(O2N)3C6H2OH (pK 0.29) had such high reactivity with I that the ester could not be isolated but immediately disproportionated to the anhydride of I. The reactions of phenol esters of I with II were as follows [R of phenol HOR, pK, and t/2 (min.) given]: 4-Me2NC6H4, --, no reaction; 4-PhC6H4, 13.00, very slow; 4-FC6H4, 13.10, very slow; 4-ClC6H4, 12.51, 700; 2-FC6H4, 12.15, 555; 3-FC6H4, 12.42, 500;
3 ClC6H4, 12.09, 360; 2,4,6-I3C6H2, 8.24, 350; 2-ClC6H4, 11.98, 264; 3-pyridyl, 11.55, 172; 4-AcC6H4, 11.18, 157; N-methyl-3-pyridinium group 6.75, 7; 3,5-Cl2C6H3, 10.70, 44.4; 4-EtO2CC6H4, 11.35, 42.1; 2,4-Cl2C6H3, 10.87, 38.5; 2,4-MeO(OHC)C6H3, 10.30, 31.0; 2,4-Br2C6H3, 10.82, 31.0; 2,4,6-Cl3C6H2, 9.69, 19.3; 2,4-6-Br3C6H2, 8.29, 72.0; 4-O2NC6H4, 9.41, 5.7; 4-ONC6H4, 8.22, 4.3; 2,4,5-Cl3C6H2 9.60, 2.8; Cl5C, 6.25, 2.36. The hydroxamic acid or aldoxime, its pK, and the % yield from the reaction of its deriv. of I with II were as follows: HONHCO2CH2Ph, 14.3, 68; HONHSO2Ph, 13.1, 78; BzNHOH (III), 11.4, 72; 4-O2NC6H4NHOH, 9.9, 85; AcNHOH, 14.5, 60; HON:CHPh, 14.5, 90; 2,4-(O2N)2C6H3CH:NOH, 12.0, 92; 3-HON:CHQ (Q = pyridyl), 13.4, 83; 4-HON:CHQ, 13.1, 84; HONHCOCH2Cl, 10.8,
side reaction; HON:C(NH2)CH2Cl, 8.8, side reaction; HON:C(NH2)CCl3, strongly acid, side reaction. The t/2 of the reaction of the mixed anhydride of I and III with II was 44 min.
ACCESSION NUMBER: 1965:3293 CAPLUS
DOCUMENT NUMBER: 62:3293
ORIGINAL REFERENCE NO.: 62:627g-h,628g-h,629a
TITLE: Use of some new active esters in peptide synthesis
AUTHOR(S): Plesa, J.
CORPORATE SOURCE: Sandoz Ltd., Basel, Switz.
SOURCE: Peptides, Proc. European Symp., 5th, Oxford (1963), 1962, 69-72
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 3267-57-0, Carbamic acid, [.alpha.-[[[(2,4-dinitrobenzylidene)amino]oxy]carbonyl]phenethyl]-, benzyl ester
(reaction with benzylamine)
RN 3267-57-0 CAPLUS
CN Carbamic acid, [.alpha.-[[[(2,4-dinitrobenzylidene)amino]oxy]carbonyl]phenethyl]-, benzyl ester (7CI, 8CI) (CA INDEX NAME)



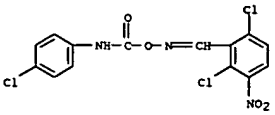
L12 ANSWER 77 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)

L12 ANSWER 78 OF 81 CAPLUS COPYRIGHT 2003 ACS
AB The title compds. were prepd. by chlorinating benzaldoximes in the presence of diluents with suitable isocyanates. The compds. exhibited usefulness as pre- and postemergent weed killers, in most cases more effective than Me2C:NO2CNHPh. Thus, 12.5 g. PhNCO added dropwise at 60.degree. to a soln. of 2,6-Cl2C6H3CH:NOH in 200 ml. abs. C6H6 and the mixt. refluxed 30 min. gave 23 g. 2,6-Cl2C6H3CH:NO2CXHPh, m. 112-13.degree. (decompn.). Similarly were obtained the following 2,6-Cl2C6H3CH:NO2CNHR [R and m.p. (decompn.) given]: 4-ClC6H4, 108-13.degree.; 3-ClC6H4, 129-31.degree.; 3,4-Cl2C6H3, 156.degree.; 4-O2NC6H4, 144.degree.; 4-EtOC6H4, 109-12.degree.; 1-naphthyl, 180.degree.; 1,2,3,4,5Cl5C2, 150.degree..
2,6-Cl2C6H3CH:NO2CNHSO2C6H4Me-4
m. 117-18.degree. (decompn.). 2,6-Cl2C6H3CH:NOH (38 g.) in 200 ml. CH2Cl2
treated dropwise at 20-5.degree. with 1,2,6-Me(OCN)2C6H3 in 100 ml. CH2Cl2
and the mixt. stirred 6 hrs. at room temp. gave 31 g. (2,6-C12C6H3CH:NO2CNH)2R (I, R = 1-methyl-2,6-phenylene), m. 195.degree. (decompn.). Similarly were prepd. the following I (R and m.p. given): 1-methyl-2,4-phenylene, 147.degree. (decompn.); 1,4-phenylene, <140.degree. (decompn.); (4-C6H4)2CH2, <90.degree.; 1,5naphthylene, <200.degree. (decompn.); 1,4-cyclohexylene, 132-5.degree.; (4-C6H4)2CMe2, 145.degree. (decompn.); 1,3-phenylene, <130.degree. (de-compn.); 1,3,4-trichloro-5-methyl-2,6-phenylene, 180.degree. (de-compn.); 4,4'-dicyclohexylenemethyl, 130.degree. (decompn.). 2,6-Cl2C6H3CH:NOH (28.5 g.) in 200 ml. CH2Cl2 treated dropwise at 20-5.degree. with 23.3 g. (4-OCNC6H4O)3PS in CH2Cl2 and the mixt. stirred 7 hrs. at room temp., gave
50 g. [4-(2,6-Cl2C6H3CH:NO2CNH)C6H4O]3P(S), m. 90-100.degree. (decompn.). 2,3,6-Cl3C6H2CH:NOH (45 g.) in 200 ml. CH2Cl2 treated dropwise at 20.degree. with 24 g. PhNCO and the soln. kept 3 hrs. gave 56 g. 2,3,6-Cl3C6H2CH:NO2CNHR (II, R = Ph), m. 55-60.degree. (decompn.). Similarly were prepd. the following II [R and m.p. (decompn.) given]: 3-ClC6H4, 98.degree.; 4-ClC6H4, 94.degree.; 3,4-Cl2C6H3, 118-20.degree.; 1,2,3,4,5-Cl5C, 161.degree.. 2,3,6-Cl3C6H2CH:NO2CNHSO2C6H4Me-4 137-9.degree. (decompn.). 2,3,6-Cl3C6H1:NOH (45 g.) in 200 ml. CH2Cl2 treated dropwise at 20.degree. with 14.7 g. 1,2,4-Me(OCN)2C6H3 and the mixt. stirred 4 hrs. gave 58 g. 2,4-(2,3,6-Cl3C6H2CH:NO2CNH)2C6H3Me m. 210.degree. (decompn.). 2,6,3-Cl2(O2N)C6H2:NOH (47 g.) in 200 ml. Et2O treated dropwise at 20.degree. with 30.7 g. p-ClC6H4NCO in Et2O gave 60 g.
2,6,3-Cl2(O2N)C6H2CH:NO2CNHR (III, R = 4-ClC6H4), m. 158-64.degree. (decompn.). Similarly prepd. were the following III [R and m.p. (decompn.) given]: 3-ClC6H4, 128.degree.; 3,4-Cl2C6H3, 147.degree.. 2,6,3-Cl2(O2N)C6H2CH:NO2CNHSO2C6H4Me-4, m. 140-1.degree.. 2,6,3-Cl2(MeO)C6H2:NOH (11 g.) in 300 ml. CH2Cl2 treated at 35-40.degree. with 6 g. PhNCO and the mixt. stirred kept several hrs. gave 14 g. 2,6,3Cl2(MeO)C6H2CH:NO2CNHR (IV, R = Ph), m. 120-3.degree. (decompn.). Similarly were prepd. the following IV [R and m.p. (decompn.) given]: 4-ClC6H4, 130-1.degree.; 1,2,3,4,5-Cl5C, 135.degree.. 2,4,6-Cl3C6H2:NOH (45 g.) in 200 ml. Et2O treated dropwise at 20.degree. with 24 g. PhNCO gave 57 g. 2,4,6-Cl3C6H2CH:NO2CNHPh, m. 154-6.degree. (decompn.).
ACCESSION NUMBER: 1964:476345 CAPLUS
DOCUMENT NUMBER: 61:76345
ORIGINAL REFERENCE NO.: 61:13244b-g
TITLE: Chlorinated O-carbamoylbenzaldoximes
INVENTOR(S): Dickore, Karlfried; Sasse, Klaus; Eue, Ludwig; Heiss, Rudolf
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: 6 pp.

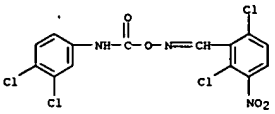
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1174757		19640730	DE	19621222
BE 641600			BE	
FR 1379919			FR	
GB 995313			GB	
NL 302370			NL	

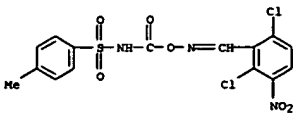
IT **92158-91-3**, Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(p-chlorophenyl)carbamoyl]oxime **92167-56-1**, Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(3,4-dichlorophenyl)carbamoyl]oxime **92428-75-6**, Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(p-tolylsulfonyl)carbamoyl]oxime
(prepn. of)
RN 92158-91-3 CAPLUS
CN Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(p-chlorophenyl)carbamoyl]oxime (7CI) (CA INDEX NAME)



RN 92167-56-1 CAPLUS
CN Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(3,4-dichlorophenyl)carbamoyl]oxime (7CI) (CA INDEX NAME)

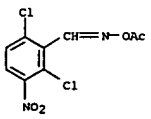


RN 92428-75-6 CAPLUS
CN Benzaldehyde, 2,6-dichloro-3-nitro-, O-[(p-tolylsulfonyl)carbamoyl]oxime (7CI) (CA INDEX NAME)



AB The efficiency and phytotoxicity of various fungicides (zineb-S65, zineb P-10, maneb S-65, maneb P-7, maneb P-15, ferbam S-76, thiram S-80, and ziram S-80) against P. tabacina was studied in hot houses, sprout-beds, and in the field. Zineb at 0.3% concn. yielded very good results with no phytotoxic effect; 4-5 g./sq.m. of powder based on zineb (17.5-10%) yielded good results during field tests. Maneb (3-4 g./sq.m.), contg. 7-17%, also yielded good results but a slight phytotoxic effect was observed. Maneb spray at 0.05-0.06% concn. was effective and medium phytotoxicity was of temporary character. Ferbam (0.5-0.47% concn.) provided effective protection without phytotoxicity. Thiram was effective at 0.4% concn. Ziram (0.2-0.4% concn.) failed to protect tobacco against P. tabacina.

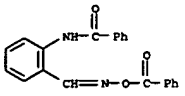
ACCESSION NUMBER: 1964:19287 CAPLUS
DOCUMENT NUMBER: 60:19287
ORIGINAL REFERENCE NO.: 60:3430f-h
TITLE: Efficiency and phytotoxicity of some fungicides in protection of Dungansk tobacco from Peronospora tabacina
AUTHOR(S): Blagojevic, Milutin; Nadezdin, Milojka; Prpic, Zdenka
SOURCE: Agron. Glasnik (1963), 13(8), 559-67
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT **90418-11-4**, Benzaldehyde, 2,6-dichloro-3-nitro-, O-acetyloxime
(as fungicide)
RN 90418-11-4 CAPLUS
CN Benzaldehyde, 2,6-dichloro-3-nitro-, O-acetyloxime (7CI) (CA INDEX NAME)



AB Deoxygenation of quinazoline 3-oxide (I) to quinazoline (II) was effected by PCl3, PBr3, or catalytic redn. (Raney Ni). Such catalytic absorption of 1 mole equiv. H by 1.3 g. I in MeOH yielded 0.8 g. II, m. 48-9.degree. (b. 240-3.degree.), whereas absorption of 2 mole equivs. H by 0.75 g. I in MeOH yielded 0.3 g. 3,4-dihydroquinazoline, the structure of which (5 g.) in C6H6 was confirmed by oxidn. with alk. K3Fe(CN)6 to yield 2 g. II, b15-16 115-18.degree., m. 48.degree.. However, I suffered ring fission with the anionoid reagents which caused simple substitution of the corresponding 1-oxide (III). Thus, 0.5 g. I and 0.23 g. KCN in H2O treated slowly with 0.5 g. BzCl gave an orange oil, purified by ether extn. and Al2O3 chromatography to yield 0.12 g. o-BzHNC6H4CH:NOBz, m. 147-8.degree., also formed, in confirmation of structure, from BzCl in C5H5N on o-H2NC6H4CH:NOH. I (0.5 g.) with p-MeC6H4SO2Cl in CHCl3 yielded 0.4 g. unidentified cryst. compd. I (0.5 g.) heated 4 hrs. on a water bath with 6 cc. Ac2O, excess Ac2O removed in vacuo, the residue made alk. with 15% K2CO3, extd. with C6H6, and the ext. purified by Al2O3 chromatography yielded 0.08 g. o-CNC6H4CN, m. 109-10.degree., the infrared spectrum of which showed bands characteristic of CN and NC groups. I (0.5 g.) refluxed 1 hr. on a water bath with 10 cc. SO2Cl2 yielded 0.1 g. unidentified oil. Both unidentified products were probably also results of fission of the pyrimidine ring of I. Mechanisms for such reactions were outlined. Even 2N NaOH kept overnight at room temp. with 0.3 g. I opened the ring to yield 0.21 g. o-(OHCHN)C6H4CH:NOH, m. 154-5.degree.. Reactions of the less reactive anionoid reagents with I afforded further contrasts to those with the 4-MeO deriv. (IV) of III. Thus, 0.3 g. I allowed to stand overnight at room temp. with HCN-MeOH, 20% NaHSO3, or 80% N2H4.H2O gave, resp., 0.15 g. 4-NC deriv. of II, m. 118-19.degree. (identical with the oxidn. product of 3,4-dihydro-4-quinazolinecarbonitrile), 0.25 g. 4-NaO3S deriv. of II, m. above 360.degree., or 0.16 g. 4-H2NHN deriv. (V) of II, m. 188-9.degree. (decompn.). On the other hand, IV failed to react with HCN or NaHSO3 and with N2H4.H2O 0.3 g. IV yielded 0.2 g. 4-hydrazinoquinazoline 1-oxide, m. 167-8.degree. (decompn.). The structure of V (0.35 g.) was confirmed by refluxing 3 hrs. on a water bath with BzH in MeOH to yield 0.2 g. 4-PhCH:NHN deriv. of II, m. 171-2.degree.. All these results indicated a greater nucleophilic activity of the 4-position in I as compared with the 2-position in III. Also, the 3-oxide group lessened the stability of the ring and led to its fission between the 2- and 3-positions.

ACCESSION NUMBER: 1962:38508 CAPLUS
DOCUMENT NUMBER: 56:38508
ORIGINAL REFERENCE NO.: 56:7320e-i,7321a
TITLE: Quinazoline 3-oxide
AUTHOR(S): Higashino, Takeo
CORPORATE SOURCE: Shizuoka Coll. Pharm.
SOURCE: Chem. Pharm. Bull. (Tokyo) (1961), 9, 635-41
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT **94963-92-5**, Benzanilide, 2'-formyl-, O-benzoyloxime
(prepn. of)
RN 94963-92-5 CAPLUS
CN Benzanilide, 2'-formyl-, O-benzoyloxime (7CI) (CA INDEX NAME)

L12 ANSWER 80 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



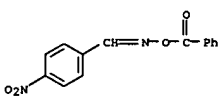
L12 ANSWER 81 OF 81 CAPLUS COPYRIGHT 2003 ACS

AB H2NOBz (I), m. 8.degree., .lambda. 230 m.mu. (.epsilon. 10,900) and 5.78 .mu., was prepd. from 15 ml. of a fresh 1:1 mixt. of 4N H2NOH2Cl and 3.5N NaOH added with shaking to 20 millimoles p-O2NC6H4OBz (II), m. 145.degree., in 500 ml. 95% EtOH at 65.degree. and allowed to stand 15 min. at room temp., assays showing 100% p-O2NC6H4O- (by .epsilon. at 400 m.mu.) but only 15% hydroxamic acid (FeCl3 test); an addnl. 5 min. evapn. to 95 ml. at reduced pressure, addn. of 95 ml. H2O, 2 extns. with 100 ml. Et2O, drying with Na2SO4, and evapn. produced 4.9 g. stable mixt., m. -15.degree., purified by washing a cold 1.5% soln. in Et2O or CHCl3 with 0.2N aq. Na2CO3, evapg., and crystg. at -78.degree. from ether-petr. ether. From 157 mg. I in 5 ml. MeOH with 0.15 ml. Ac2O and 1.5 ml. M aq. NaOAc at room temp., evapd. to 0.5 ml. and crystd. from Et2O, was obtained 136 mg. AcNHOBz, m. 98-99.degree.. I (42 mg.) with 45 mg. p-O2NC6H4CHO in 1.5 ml. HOAc gave an immediate ppt. from which, after standing 5 min., heating 10 min. on the steam bath and cooling, was isolated 59 mg. p-nitrobenzaldoxime benzoate, m. 192-2.5.degree.. The same reactants in alc. without HOAc gave a mol. complex, m. 120.degree.. It was attempted to prep. H2NOAc (III) similarly to I at 0.degree. from H2NOH2Cl and 5 millimoles p-O2NC6H4OAc (IV), m. 78-9.degree.; assays indicated p-O2NC6H4O-, 0.8 millimoles AcNHOH (V), and no Ac2NOH (VI); the distillate contained only alc. and 2.6 millimoles III, transformed into V and VI by attempted purification, or into 189 mg. BzNHOAc, m. 128-9.degree., with BzCl at room temp. Pure I after standing 2 hrs. (10 min.) at 30.degree. (100.degree.) decompd. into 45% (88%) BzNHOH and 11% (3%) Bz2NOH. In 1.6M H2NOH only BzNHOH was formed. I or III were completely destroyed by 0.01M NaOH in 5 min. at room temp. Other acylating agents for NH2OH were examd. in neutral buffer solns. (in the presence of [CH2N(CH2CO2H)2]2 to prevent metal catalysis of N-acylation). Reagent and initial % hydroxamic acid (= N-acylation) are given: Ac2O 49, acetylimidazole 14, IV 25, VI 8, II 41, 2,4-(NO2)2 compd. 63, BzCl 96.

ACCESSION NUMBER: 1959:77605 CAPLUS
DOCUMENT NUMBER: 53:77605
ORIGINAL REFERENCE NO.: 53:14030d-i
TITLE: Reaction of hydroxylamine with activated acyl groups. I. Formation of O-acylhydroxylamine
AUTHOR(S): Jencks, Wm. P.
CORPORATE SOURCE: Brandeis Univ., Waltham, MA
SOURCE: J. Am. Chem. Soc. (1958), 80, 4581-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

IT 3848-35-9, Benzaldehyde, p-nitro-, O-benzoyloxime
(prepn. of)
RN 3848-35-9 CAPLUS
CN Benzaldehyde, 4-nitro-, O-benzoyloxime (9CI) (CA INDEX NAME)

L12 ANSWER 81 OF 81 CAPLUS COPYRIGHT 2003 ACS (Continued)



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FULL ESTIMATED COST                                   379.51    1006.07

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CA SUBSCRIBER PRICE                                   -52.73     -77.47

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DICTIONARY FILE UPDATES:  21 MAR 2003  HIGHEST RN 500256-84-8

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PROPERTIES for more information.  See STNote 27, Searching Properties
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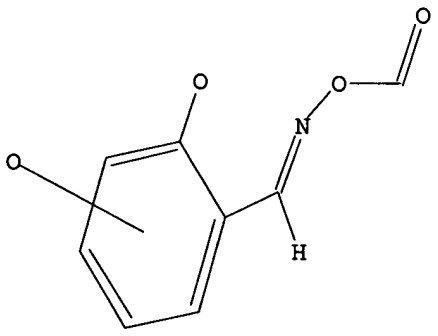

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -     89 TO ITERATE

100.0% PROCESSED      89 ITERATIONS                                9 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1214 TO     2346
PROJECTED ANSWERS:               9 TO      360
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FILE COVERS 1907 - 22 Mar 2003 VOL 138 ISS 13
FILE LAST UPDATED: 21 Mar 2003 (20030321/ED)

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=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.83	1155.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-77.47

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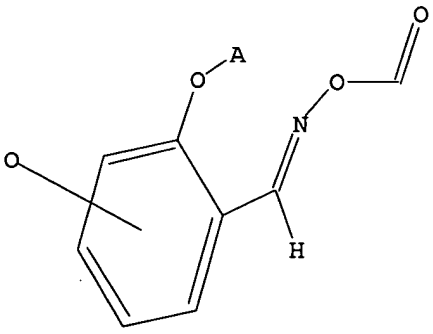

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -     89 TO ITERATE

100.0% PROCESSED      89 ITERATIONS                                8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1214 TO     2346
PROJECTED ANSWERS:               8 TO      329
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FILE COVERS 1907 - 22 Mar 2003 VOL 138 ISS 13
FILE LAST UPDATED: 21 Mar 2003 (20030321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l18
L19 29 L18

=> d l19 1-29 abs ibib hitstr

L19 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB The title compn. contains alkali sol. compn. materials, oxime ester as a polymn. initiator, and photopolymg. materials, wherein the oxime ester has structure Ar1-C=NOR1(H) or M1-[-C=NOR1(H)]x (R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl; M1 = 2, 3). The compn., which contain the oxime ester, provides the photoresist of the improved resoln. and shows the good storageability.

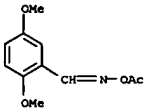
ACCESSION NUMBER: 2001:752027 CAPLUS
DOCUMENT NUMBER: 135:264637
TITLE: Light-sensitive photoresist composition containing oxime esters as polymerization initiator in fabrication of optical filters in optical imaging devices
INVENTOR(S): Oka, Hidetaka; Kunimoto, Kazuhiko; Kura, Hisatoshi; Ohwa, Masaki; Tanabe, Junichi
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 110 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2802655	A1	20010622	FR 2000-16309	20001214
NL 1016814	A1	20010618	NL 2000-1016814	20001206
NL 1016814	C2	20020129		
GB 2357293	A1	20010620	GB 2000-29801	20001207
GB 2357293	B2	20020807		
SE 2000004565	A	20010725	SE 2000-4565	20001211
JP 2001235858	A2	20010831	JP 2000-376036	20001211
US 2002020832	A1	20020221	US 2000-734635	20001212
FI 2000002731	A	20010616	FI 2000-2731	20001213
DE 10061948	A1	20010621	DE 2000-10061948	20001213
BR 2000005866	A	20020521	BR 2000-5866	20001213
CN 1305124	A	20010725	CN 2000-135063	20001214
BE 1013705	A3	20020604	BE 2000-786	20001214
AT 200002080	A5	20020615	AT 2000-2080	20001214
AT 410146	B	20030225		

PRIORITY APPLN. INFO.: EP 1999-811161 A 19991215
EP 2000-810630 A 20000717

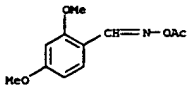
IT **122913-67-1P 362523-27-1P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(oxime in light-sensitive color filter compn.)

RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



L19 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 362523-27-1 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



L19 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to a photopolymn. initiator of oxime ester for a photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) (R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn. initiator provides the alkali-developable light-sensitive photoresist compn., which shows the improved storageability, of the high resoln. and the good storageability.

ACCESSION NUMBER: 2001:752026 CAPLUS
DOCUMENT NUMBER: 135:280493
TITLE: Photopolymerization initiator of oxime ester for light-sensitive photoresist composition
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka; Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum, Jean Luc
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Fr. Demande, 171 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2802528	A1	20010622	FR 2000-16306	20001214
NL 1016815	A1	20010618	NL 2000-1016815	20001206
NL 1016815	C2	20020514		
GB 2358017	A1	20010711	GB 2000-29793	20001207
GB 2358017	B2	20020313		
SE 2000004564	A	20020612	SE 2000-4564	20001211
US 2001012596	A1	20010809	US 2000-734625	20001212
JP 2001233842	A2	20010828	JP 2000-377671	20001212
FI 2000002730	A	20010616	FI 2000-2730	20001213
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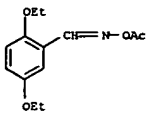
DK 200001878	A5	20010616	DK 2000-1878	20001214
BE 1013872	A5	20021105	BE 2000-789	20001214
CN 1299812	A	20010620	CN 2000-135980	20001215
BR 2000006379	A	20010724	BR 2000-6379	20001215

PRIORITY APPLN. INFO.: EP 1999-811160 A 19991215
EP 2000-810629 A 20000717

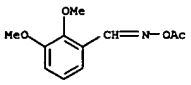
IT **362624-54-2P 362624-55-3P 362624-56-4P**
362624-57-5P 362624-58-6P 362624-72-4P
362624-82-6P 362624-83-7P 362624-99-5P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

RN 362624-54-2 CAPLUS
CN Benzaldehyde, 2,5-diethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

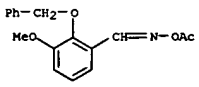


L19 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

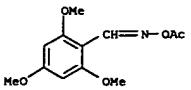
RN 362624-55-3 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



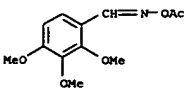
RN 362624-56-4 CAPLUS
CN Benzaldehyde, 3-methoxy-2-(phenylmethoxy)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-57-5 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

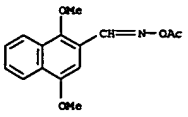


RN 362624-58-6 CAPLUS
CN Benzaldehyde, 2,3,4-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

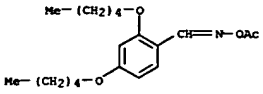


RN 362624-72-4 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

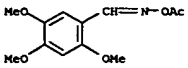
L19 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



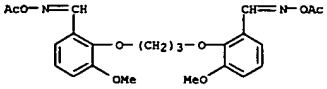
RN 362624-82-6 CAPLUS
CN Benzaldehyde, 2,4-bis(pentyloxy)-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-83-7 CAPLUS
CN Benzaldehyde, 2,4,5-trimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-99-5 CAPLUS
CN Benzaldehyde, 2,2'-[1,3-propanediylbis(oxy)]bis[3-methoxy-, bis(O-acetyloxime) (9CI) (CA INDEX NAME)



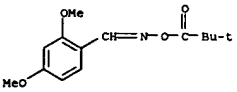
L19 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB Photolyses of aldoxime esters, contg. a considerable range of alkyl groups, lead to cleavage of their N-O bonds and formation of aryliminyl and alkyl radicals. The process was found to be favored by 4-methoxyacetophenone as a photosensitizer and by methoxy substituents in the aryl rings. 4-Nitro- and pentafluoro-substitutions of the aryl rings were, on the other hand, deleterious. The intermediate iminyl radicals, together with primary, secondary and tertiary alkyl radicals were characterized by 9 GHz EPR spectroscopy. Cyclopropyl, CF3, and CCl3 radicals were probably also formed, but were too reactive for direct EPR spectroscopic detection. Photosensitized reaction of benzophenone oxime O-nonanoyl ester produced the diphenylmethaniminoxyl, as well as the expected n-octyl and iminyl radicals. This indicated that O-C bond scission accompanied O-N scission for this ketoxime ester. At higher temps. the C-centered radicals added to the starting oxime esters to produce alkoxyaminyl radicals that were also spectroscopically detected in some cases. No evidence for abstraction of the iminyl hydrogen by tert-butoxyl radicals was obtained. Instead, the t-BuO.bul. radicals added to the C:N double bonds of the oxime esters. Similarly, chlorine abstraction from alkylbenzohydroximoyl chlorides by trimethyltin radicals did not take place. Preparative scale expts. with oxime esters contg. suitably unsatd. alkyl groups showed that good yields of cyclised products could be obtained in the presence of the photosensitizer. This process constitutes a general method by which carboxylic acids or acid chlorides can be converted into alkyl radicals and hence to cyclized derivs.

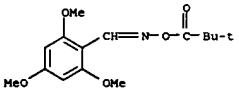
ACCESSION NUMBER: 2000:832599 CAPLUS
DOCUMENT NUMBER: 134:178233
TITLE: Exploitation of aldoxime esters as radical precursors in preparative and EPR spectroscopic roles
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: University of St. Andrews, School of Chemistry, St Andrews, Fife, KY16 9ST, UK
SOURCE: Perkin 2 (2000), (12), 2399-2409
CODEN: PRKTFO; ISSN: 1470-1820
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:178233
IT **265122-24-5P 265122-25-6P 265122-28-9P 265122-29-0P 265122-30-3P 265122-31-4P 265122-33-6P 265122-34-7P 265122-35-8P 265122-36-9P 326853-06-9P 326853-07-0P 326853-08-1P 326853-09-2P 326853-10-5P 326853-11-6P**
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(photolysis; preparative and ESR studies of the photolysis of aldoxime esters as radical precursors)

RN 265122-24-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

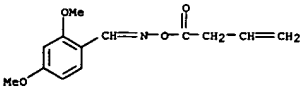
L19 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



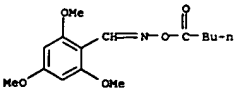
RN 265122-25-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



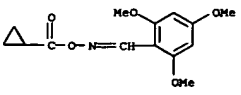
RN 265122-28-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-3-butenyl)oxime (9CI) (CA INDEX NAME)



RN 265122-29-0 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxopentyl)oxime (9CI) (CA INDEX NAME)

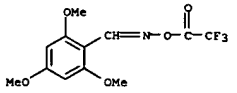


RN 265122-30-3 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)

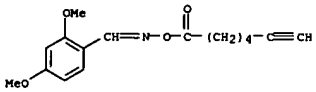


L19 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

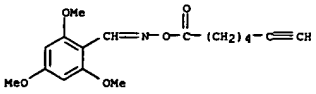
RN 265122-31-4 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trifluoroacetyl)oxime (9CI) (CA INDEX NAME)



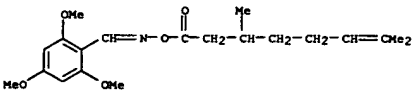
RN 265122-33-6 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)



RN 265122-34-7 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)

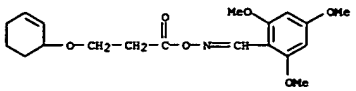


RN 265122-35-8 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)

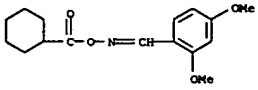


RN 265122-36-9 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

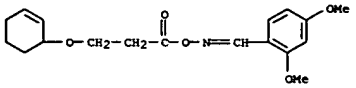
L19 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



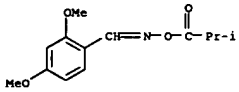
RN 326853-06-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(cyclohexylcarbonyl)oxime (9CI) (CA INDEX NAME)



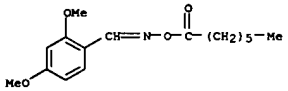
RN 326853-07-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)



RN 326853-08-1 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2-methyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

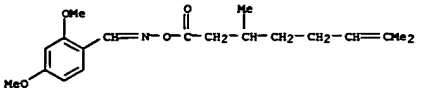


RN 326853-09-2 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxoheptyl)oxime (9CI) (CA INDEX NAME)

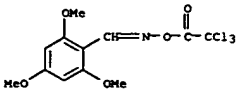


L19 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 326853-10-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)



RN 326853-11-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trichloroacetyl)oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

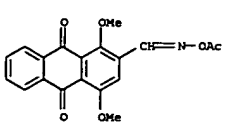
L19 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB 2-(1-Hydroxyiminoalkyl)-1,4-dimethoxy-9,10-anthraquinones were demethylated to produce 2-(1-hydroxyiminoalkyl)-1,4-dihydroxy-9,10-anthraquinones (1,4-dihydroxy-9,10-anthraquinone, DHAQ), and oxime hydroxyl groups were in turn acylated to give the corresponding 2-(1-acyloxyiminoalkyl)-DHAQ derivs. The anti-proliferative activity of 2-(1-hydroxyiminoalkyl)-DHAQ derivs. was found to be dependent on the size of the alkyl chain. Thus, DHAQ analogs with alkyl chains longer than heptyl had negligible anti-proliferative activity, while those compds. possessing shorter chains demonstrated moderate anti-proliferative activity (ED50, 2.73-19.21 .mu.M). However, the antitumor activity as expressed by T/C values did not correlate with the anti-proliferative activity; 2-(1-hydroxyiminononyl)-DHAQ with an ED50 value of >20 .mu.M exhibited potent antitumor activity (T/C, 166%). Only four of the 2-(1-hydroxyiminoalkyl)-DHAQ analogs showed good antitumor activity (T/C, >150%): 2-(1-hydroxyiminobutyl)-DHAQ (T/C, 163%), 2-(1-hydroxyiminopentyl)-DHAQ (T/C, 180%) and 2-(1-hydroxyiminononyl)-DHAQ (T/C, 166%). Acylation of the hydroxyl group of these oximes enhanced the anti-proliferative activity and antitumor effects: 2-(1-propanoyloxyiminopropyl)-DHAQ (ED50, 4.41 .mu.M; T/C, 221%) vs. 2-(1-hydroxyiminopropyl)-DHAQ (ED50, 14.64 .mu.M; T/C, 100%) and 2-(1-propanoyloxyiminobutyl)-DHAQ (ED50, 2.65 .mu.M; T/C, 202%) vs. 2-(1-hydroxyiminobutyl)-DHAQ (ED50, 16.43 .mu.M; T/C, 163%).

ACCESSION NUMBER: 2000:459209 CAPLUS
DOCUMENT NUMBER: 133:222418
TITLE: Synthesis and evaluation of the antitumor activity of 2-substituted 1,4-dihydroxy-9,10-anthraquinones
AUTHOR(S): Tam, Mai-Ngoc; Nam, Nguyen-Hai; Jin, Guang-Zu; Song, Gyu-Yong; Ahn, Byung-Zun
CORPORATE SOURCE: Institute of Building Materials, Hanoi, Vietnam
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (2000), 333(6), 189-194
CODEN: ARPMAS; ISSN: 0365-6233
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

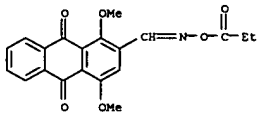
IT **291749-15-0P 291749-25-2P 291749-34-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and antitumor activity of 2-substituted 1,4-dihydroxyanthraquinones)

RN 291749-15-0 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-, 2-(O-acetyloxime) (9CI) (CA INDEX NAME)

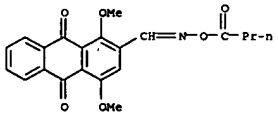


RN 291749-25-2 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-,

L19 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)
2-[O-(1-oxopropyl)oxime] (9CI) (CA INDEX NAME)



RN 291749-34-3 CAPLUS
CN 2-Anthracenecarboxaldehyde, 9,10-dihydro-1,4-dimethoxy-9,10-dioxo-, 2-[O-(1-oxobutyl)oxime] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

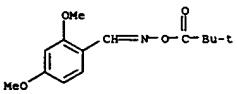
L19 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB Arylmethaniminyl and alkyl radicals were generated from di- and tri-methoxyphenyl aldoxime esters, by photolysis in the presence of 4-methoxyacetophenone, and were detected by EPR spectroscopy: good yields of cyclized products were isolated from suitably unsatd. alkyl substituents.

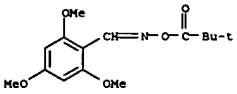
ACCESSION NUMBER: 2000:133509 CAPLUS
DOCUMENT NUMBER: 132:308008
TITLE: Enhanced radical delivery from aldoxime esters for EPR and ring closure applications
AUTHOR(S): McCarroll, Andrew J.; Walton, John C.
CORPORATE SOURCE: Sch. Chem., University of St. Andrews, St. Andrews, Fife, KY16 9ST, UK
SOURCE: Chemical Communications (Cambridge) (2000), (5), 351-352
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:308008

IT **265122-24-5 265122-25-6 265122-28-9 265122-29-0 265122-30-3 265122-31-4 265122-33-6 265122-34-7 265122-35-8 265122-36-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(photolysis; ESR study of arylmethaniminyl and alkyl radical formation in sensitized photolysis of aryl aldoxime esters and preparative decarboxylative cyclization of unsatd. carboxylic acids via aldoxime ester photolysis)

RN 265122-24-5 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

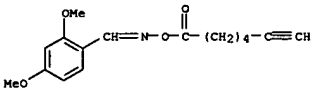


RN 265122-25-6 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)

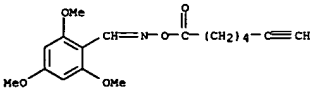


RN 265122-28-9 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-3-butenyl)oxime (9CI) (CA INDEX NAME)

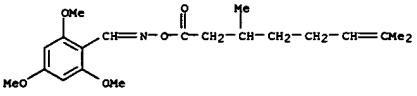
L19 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



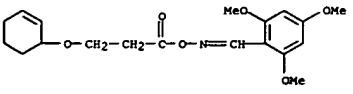
RN 265122-34-7 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)



RN 265122-35-8 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(3,7-dimethyl-1-oxo-6-octenyl)oxime (9CI) (CA INDEX NAME)

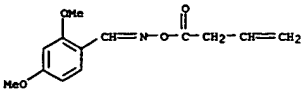


RN 265122-36-9 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-[3-(2-cyclohexen-1-yloxy)-1-oxopropyl]oxime (9CI) (CA INDEX NAME)

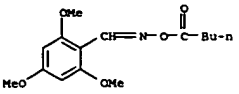


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

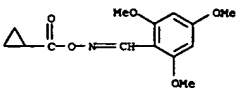
L19 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



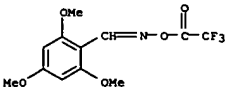
RN 265122-29-0 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(1-oxopentyl)oxime (9CI) (CA INDEX NAME)



RN 265122-30-3 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(cyclopropylcarbonyl)oxime (9CI) (CA INDEX NAME)



RN 265122-31-4 CAPLUS
CN Benzaldehyde, 2,4,6-trimethoxy-, O-(trifluoroacetyl)oxime (9CI) (CA INDEX NAME)



RN 265122-33-6 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(1-oxo-6-heptynyl)oxime (9CI) (CA INDEX NAME)

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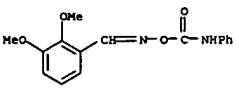
AB O-arylcarbamoylated hydroxylamine tosylate reacts with aldehydes at room temp. to give the corresponding O-carbamoylated oximes. The reaction of carbamoylated hydroxylamine with arom. aldehydes in THF or in toluene at reflux affords the corresponding nitriles and anilinium tosylate in high yield. Attempts to cyclize the O-carbamoylated oximes in the presence of AcCl lead again to the formation of nitriles.

ACCESSION NUMBER: 1999:631975 CAPLUS
DOCUMENT NUMBER: 132:3107
TITLE: Direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes
AUTHOR(S): Coskun, Necdet; Arikan, Nevin
CORPORATE SOURCE: Department of Chemistry, Uludag University, Bursa, 16059, Turk.
SOURCE: Tetrahedron (1999), 55(40), 11943-11948
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:3107

IT **250722-17-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(direct conversion of aldehydes to nitriles via O-phenylcarbamoylated aldoximes)

RN 250722-17-9 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-[(phenylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2003 ACS
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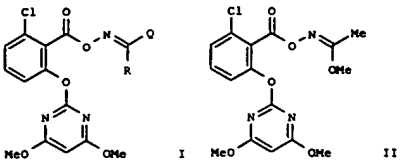


AB New 6-chloro-2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoates [(2-[[(alkyeneamino)oxy]carbonyl]-1-chloro-3-phenoxy]pyrimidines] I (R = H, halo, cyano, etc.; Q = alkyl, alkenyl, cycloalkyl, etc.) were disclosed. I were claimed as herbicides. An example compd. 2-[1-chloro-[[[(1-methoxyethylidene)amino]oxy]carbonyl]phenoxy]-4,6-dimethoxypyrimidine (II) was prepd.

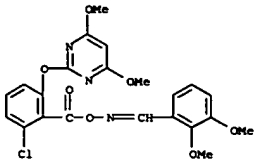
ACCESSION NUMBER: 1994:605344 CAPLUS
DOCUMENT NUMBER: 121:205344
TITLE: Novel 6-chloro-2-(4,6-dimethoxypyrimidin-2-yl) oxybenzoic acid ester derivatives, processes for their production and their application as herbicides.
INVENTOR(S): Hur, Chang Uk; Cho, Jin Ho; Lee, Ho Seong; Yoo, Sang Ku; Hong, Su Myeong; Kim, Hong Woo; Rim, Jae Suk; Bae, Yeong Tae; Chae, Sand Heon; et al.
PATENT ASSIGNEE(S): Lucky Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608862	A1	19940803	EP 1994-101132	19940126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
KR 9603323	B1	19960308	KR 1993-1017	19930127
KR 9612180	B1	19960916	KR 1993-10097	19930604
KR 9612179	B1	19960916	KR 1993-10098	19930604
KR 9612181	B1	19960916	KR 1993-10099	19930604
KR 9612194	B1	19960916	KR 1993-10100	19930604
KR 9612195	B1	19960916	KR 1993-10101	19930604
CN 1101345	A	19950412	CN 1994-102665	19940126
US 5494888	A	19960227	US 1994-186589	19940126
BR 9400365	A	19940816	BR 1994-365	19940127
JP 07149735	A2	19950613	JP 1994-7824	19940127
JP 2543665	B2	19961016		

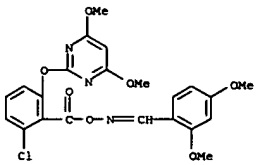
PRIORITY APPLN. INFO.:
KR 1993-1017 A 19930127
KR 1993-10097 A 19930604
KR 1993-10098 A 19930604

L19 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)
KR 1993-10099 A 19930604
KR 1993-10100 A 19930604
KR 1993-10101 A 19930604

OTHER SOURCE(S): MARPAT 121:205344
IT **157990-33-5P 157990-35-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 157990-33-5 CAPLUS
CN Benzaldehyde, 2,3-dimethoxy-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



RN 157990-35-7 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime (9CI) (CA INDEX NAME)



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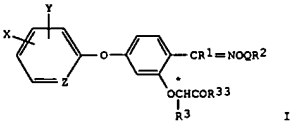
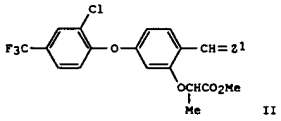




AB The title compds. [I; X, Y H, halo, CF3, C1-5 alkyl; Z = CH, N; R1 = H, HO, C1-5 alkyl or alkoxy; R2 = (un)substituted C1-10 (un)satd. aliph. hydrocarbon group, alkoxy, PhO, C6-20 arom. hydrocarbon group, NH2, C3-20 arom. heterocyclyl contg. at least one N atom.; R3 = C1-5 alkyl, Ph; R33 = HO, C1-5 (halo)alkyl, (halo)phenyl, carboxy- or alkoxycarbonyl-substituted C1-5 alkoxy, C1-5 alkenyloxy, (un)substituted NH2, NHP(O)(OR10)OR11; R10, R11 = H, C1-5 alkyl, Ph; Q = direct bond, CO, C(S), SO2; when Q = direct bond, R2 = (un)substituted alkoxy, PhO, or C6-20 arom. hydrocarbon group] are prepd. Thus, tosylation of Me (S)-(-)-lactate by tosyl chloride in benzene contg. Et3N and etherification of the resulting Me O-(p-toluenesulfonyl)-(S)-(-)-lactate with 2-hydroxy-4-(2-chloro-4-trifluoromethylphenoxy)benzaldehyde in refluxing MeCN contg. K2CO3 gave a benzaldehyde deriv. (II; Z1 = O) which was condensed with O-(4-nitrophenyl)hydroxylamine in THF contg. one drop of concd. HCl to give II (Z1 = NC6H4NO2-p) (III). III at 0.125 kg/ha postemergence completely controlled 9 weeds, e.g., Digitaria sp., Setaria viridis, and Abutilon avicennae. A mixt. III and N-(phosphonomethyl)glycine isopropylamine salt showed synergistic herbicidal activity against true glass and broad leaf weeds.

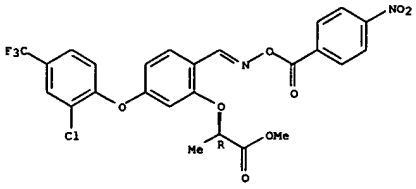
ACCESSION NUMBER: 1994:270126 CAPLUS
DOCUMENT NUMBER: 120:270126
TITLE: Preparation of pyridyloxy- and phenoxybenzaldehyde oxime derivatives as herbicides
INVENTOR(S): Azuma, Shizuo; Hiramatsu, Toshuki; Ichikawa, Yataro
PATENT ASSIGNEE(S): Teijin Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

L19 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05320117	A2	19931203	JP 1991-23791	19910125

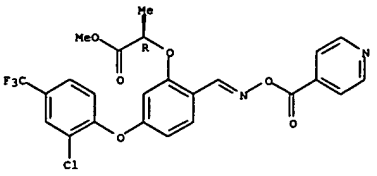
PRIORITY APPLN. INFO.: JP 1990-13478 19900125
OTHER SOURCE(S): MARPAT 120:270126
IT **154317-18-7P 154317-33-6P 154317-34-7P**
154317-35-8P 154317-37-0P 154317-38-1P
154317-39-2P 154317-40-5P 154317-41-6P
154317-42-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 154317-18-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-33-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-pyridinylcarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

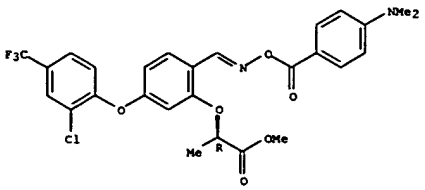
Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-34-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-

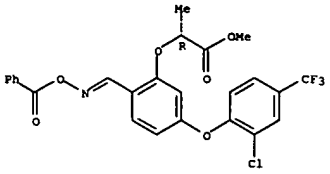
(dimethylamino)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



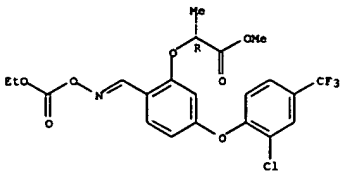
RN 154317-35-8 CAPLUS
CN Propanoic acid, 2-[2-[[(benzoyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



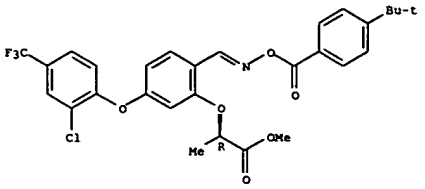
RN 154317-37-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(ethoxycarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



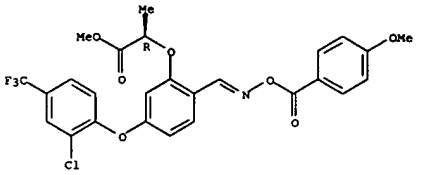
RN 154317-38-1 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(1,1-dimethylethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



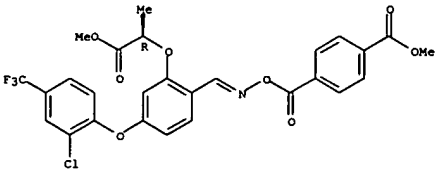
RN 154317-39-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-methoxybenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



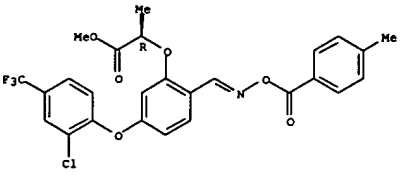
RN 154317-40-5 CAPLUS
CN Benzoic acid, 4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



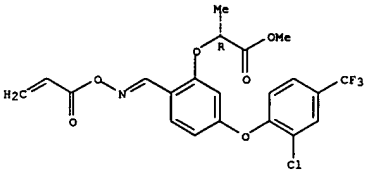
RN 154317-41-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-methylbenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 154317-42-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(1-oxo-2-propenyl)oxy]imino]methyl]phenoxy]-, methyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L19 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2003 ACS

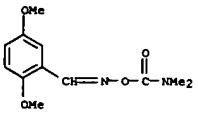
AB Thermal decompn. of syn-RCH:NOCONMe2 [I: R = 2-pyridyl, 4-C6H4NO2, Ph, 4-C6H4NMe2, 2,4- or 2,5-C6H3(OMe)2, 2-methyl- or 2-methoxy-4-dimethylaminophenyl, 2-methoxy-1-naphthyl] and syn-RCH:NOBz [II: R = Ph, 4-C6H4OMe, 2,4-C6H3(OMe)2, 2- or 4-methoxy-1-naphthyl, 1,5-C10H6SO2NEt2, 2-benzyloxy-1-naphthyl] at 80-130.degree. was kinetically studied. The decompn. was 1st-order for both I and II, and electron donating groups and substituents at the ortho position increased the reaction rates. Activation entropy values for I and II were very different and, hence, different decompn. mechanisms were proposed: .beta.-elimination with syn/anti isomerization for I and concerted elimination via a cyclic 6-membered ring transition for II.

ACCESSION NUMBER: 1992:469340 CAPLUS
DOCUMENT NUMBER: 117:69340
TITLE: Reaction control of thermal decomposition of aromatic aldoxime derivatives as heat decomposing precursor compounds
AUTHOR(S): Kawata, Ken; Kitaguchi, Hiroshi; Sato, Kozo; Yabuki, Yoshiharu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Kanagawa, 250-01, Japan
SOURCE: Senryo to Yakuhin (1992), 37(2), 33-40
CODEN: SETYAL; ISSN: 0370-9671
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

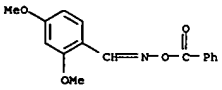
IT **93369-34-7 99806-97-0 142554-03-8**

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(thermal decompn. of, kinetics of, substituent effect and mechanism in relation to)

RN 93369-34-7 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

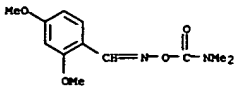


RN 99806-97-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 142554-03-8 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)

L19 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



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AB RCH2NR1CH2CONR2(OH) (I; R = insol. polymer residue; R1, R2 = alkyl), useful for selective deacylation in an org. solvent under neutral conditions, are prepd. by reaction of CH2Cl group-contg. polymers with N-hydroxy-N-alkyl(alkyl)aminoacetamides. Thus, 40 g MeNHOH.HCl was treated with 25 g MeNHCH2CO2Me in H2O/MeOH contg. NaOH to give 26 g MeNHCH2CONMe(OH), which was treated with 5 g Bio-Beads S-X1 (p-chloromethylstyrene-divinylbenzene copolymer) to give 4.7 g I (R = polymer residue; R1 = R2 = Me), which selectively deacetylated p-acetylaminophenyl acetate in EtOH at 45.degree. to give p-acetylaminophenol in 78% yield.

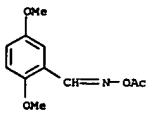
ACCESSION NUMBER: 1991:516809 CAPLUS
DOCUMENT NUMBER: 115:116809
TITLE: Polymer-supported deacylation agents.
INVENTOR(S): Ono, Mitsunori
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03072434	A2	19910327	JP 1989-186248	19890719
US 5116994	A	19920526	US 1990-509826	19900417
PRIORITY APPLN. INFO.:			JP 1989-99225	19890419
			JP 1989-186248	19890719

IT **122913-67-1**

RL: RCT (Reactant); RACT (Reactant or reagent)
(deacetylation of, with hydroxamic acid derivs. fixed on polymer beads)

RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



L19 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2003 ACS

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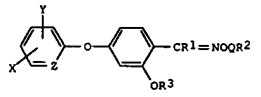

I

AB Oxime derivs. I (X, Y, Z, R1, R2, R3 and Q are defined) showed excellent herbicidal effect against broad- and narrow-leaved weeds and had quick acting herbicidal activity. Prepn. of these compds. by 2 different schemes is described. Thus, 3-(2-chloro-4-trifluoromethylphenoxy)phenol in CH2Cl2 was treated with TiCl4 then by dichloromethyl Me ether, and the product (2-hydroxy-4-(2-chloro-4-trifluoromethylphenoxybenzaldehyde) was refluxed with EtI, K2CO3 and MeEt ketone to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenoxy)benzaldehyde which was treated with NH2OH.HCl to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenyoxy)benzaldehyde oxime (I, R1 = R2 = H; R3 = Et; X = CF3; Y = Cl; Z = CH:) (II). Formulations of II at 0.5 kg/h were 100% effective against Abutilon theophrosti. I (R1 = R2 = H; R3 = CH(Me)CO2Me; X = CF3; Y = Cl; Z = -CH:) was 100% effective against Chenopodium album centrorubrum, Aranthus mangostanus, Astragalus sinicus, A. theophrosti, Solanum nigrum, and Xanthium strumarium.

ACCESSION NUMBER: 1990:436398 CAPLUS
DOCUMENT NUMBER: 113:36398
TITLE: Oxime derivatives and herbicides containing the same as an active ingredient
INVENTOR(S): Azuma, Shizuo; Nakagawa, Koji; Hiramatsu, Toshiyuki; Ichikawa, Yataro
PATENT ASSIGNEE(S): Teijin Ltd., Japan
SOURCE: PCT Int. Appl., 148 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9001874	A1	19900308	WO 1989-JP864	19890823
W: AU, BG, DK, FI, HU, JP, KR, NO, RO, SU, US				
RW: BE, CH, DE, FR, GB, IT, NL, SE				
WO 9002113	A1	19900308	WO 1988-JP837	19880824
W: AU, JP, KR, US				
RW: CH, DE, FR, GB				
AU 8940752	A1	19900323	AU 1989-40752	19890823
AU 619038	B2	19920116		
EP 433451	A1	19910626	EP 1989-909629	19890823
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 04500074	T2	19920109	JP 1989-509021	19890823
ZA 9001158	A	19901128	ZA 1990-1158	19900215
PRIORITY APPLN. INFO.:			WO 1988-JP837	19880824
			JP 1989-30002	19890210
			JP 1989-130002	19890210
			WO 1989-JP864	19890823

OTHER SOURCE(S): MARPAT 113:36398

IT 128079-35-6P 128079-36-7P 128079-37-8P
128079-38-9P 128079-39-0P 128079-40-3P
128079-42-5P 128079-43-6P 128079-44-7P
128079-45-8P 128079-46-9P 128079-47-0P
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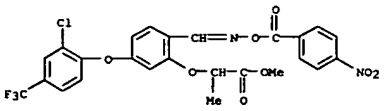
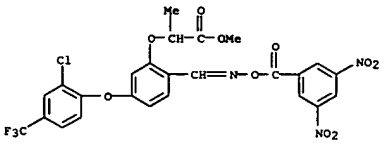
128079-67-4P 128079-68-5P 128079-69-6P
128079-70-9P 128079-71-0P 128079-73-2P
128079-74-3P 128079-75-4P 128096-69-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicidal activity of)

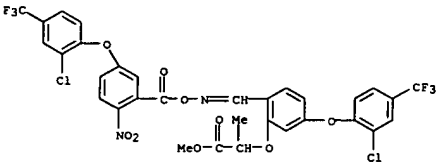
RN 128079-35-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



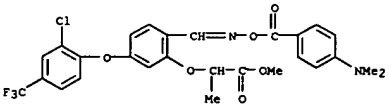
RN 128079-36-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(3,5-dinitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



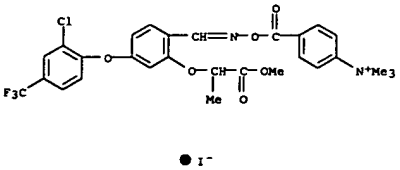
RN 128079-37-8 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(2,4-dinitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-42-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(dimethylamino)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

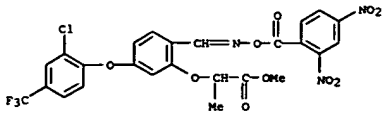


RN 128079-43-6 CAPLUS
CN Benzenaminium, 4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

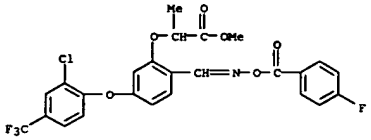


● I⁻

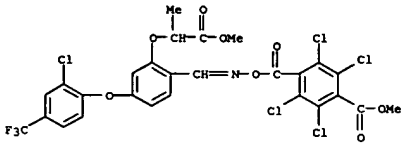
RN 128079-44-7 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(trifluoromethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



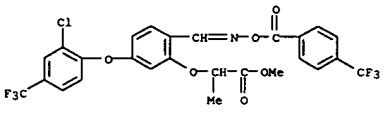
RN 128079-38-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-fluorobenzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



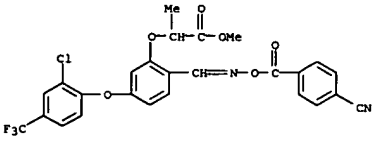
RN 128079-39-0 CAPLUS
CN Benzoic acid, 2,3,5,6-tetrachloro-4-[[[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-(2-methoxy-1-methyl-2-oxoethoxy)phenyl]methylene]amino]oxy]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



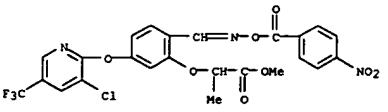
RN 128079-40-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



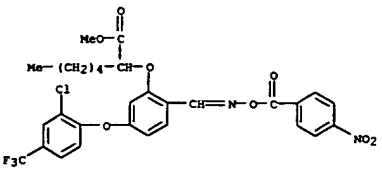
RN 128079-45-8 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-cyanobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



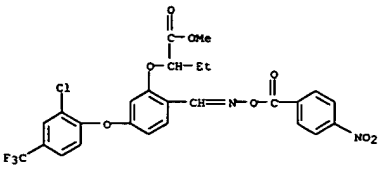
RN 128079-46-9 CAPLUS
CN Propanoic acid, 2-[5-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]-2-[[[[4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



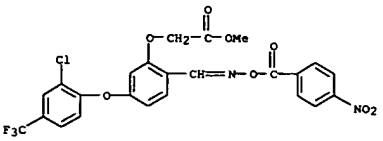
RN 128079-47-0 CAPLUS
CN Heptanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



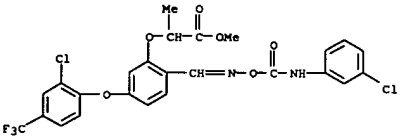
RN 128079-48-1 CAPLUS
CN Butanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



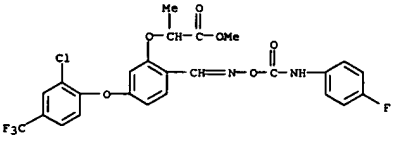
RN 128079-49-2 CAPLUS
CN Acetic acid, [5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(4-nitrobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



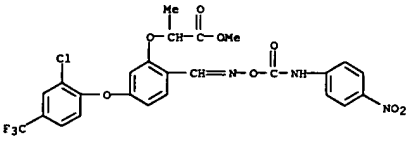
RN 128079-50-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(4-phenoxyphenoxy)carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



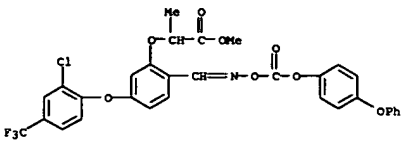
RN 128079-54-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(4-fluorophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI)
(CA INDEX NAME)



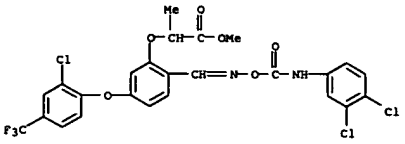
RN 128079-55-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(4-nitrophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



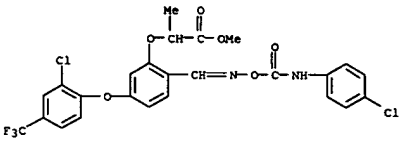
RN 128079-57-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(2,4-dichlorobenzoyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



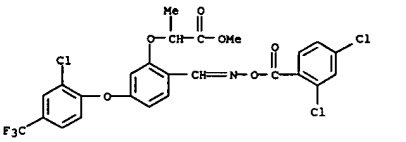
RN 128079-51-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[[(3,4-dichlorophenyl)amino]carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



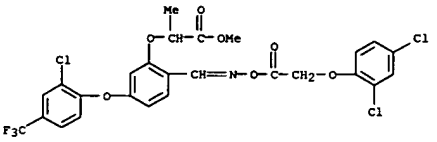
RN 128079-52-7 CAPLUS
CN Propanoic acid,
2-[2-[[[[[(4-chlorophenyl)amino]carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-53-8 CAPLUS
CN Propanoic acid,
2-[2-[[[[[(3-chlorophenyl)amino]carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

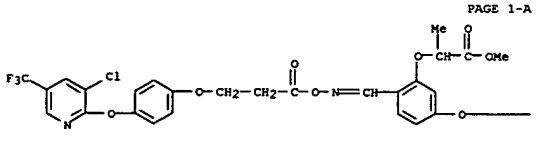


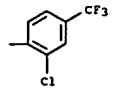
RN 128079-58-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(2,4-dichlorophenoxy)acetyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI)
(CA
INDEX NAME)



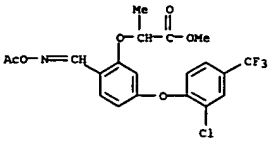
RN 128079-59-4 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[3-[4-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]-1-oxopropoxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

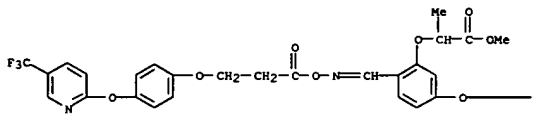


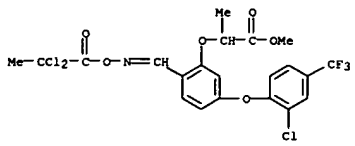


RN 128079-60-7 CAPLUS
CN Propanoic acid, 2-[2-[[(acetyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

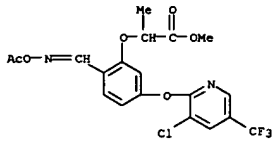


RN 128079-61-8 CAPLUS
CN Propanoic acid,
2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[1-oxo-3-[4-{[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propoxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

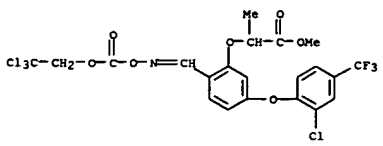




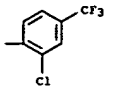
RN 128079-65-2 CAPLUS
CN Propanoic acid, 2-[2-[[(acetyloxy)imino]methyl]-5-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



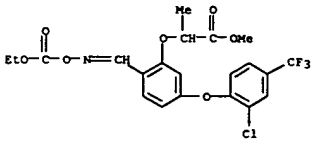
RN 128079-66-3 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[(2,2,2-trichloroethoxy)carbonyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



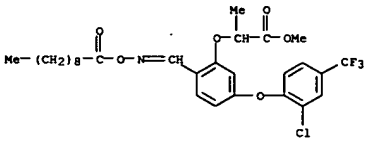
RN 128079-67-4 CAPLUS
CN Propanoic acid, 2-[2-[[[[(butylamino)carbonyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



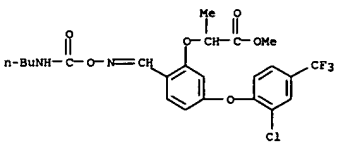
RN 128079-62-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(ethoxycarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



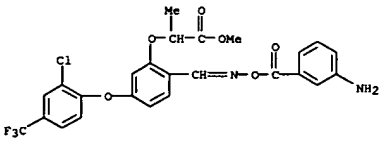
RN 128079-63-0 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(1-oxodecyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



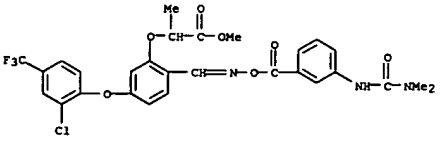
RN 128079-64-1 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[(2,2-dichloro-1-oxopropoxy)imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-68-5 CAPLUS
CN Propanoic acid, 2-[2-[[[(3-aminobenzoyl)oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

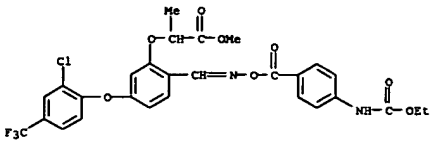


RN 128079-69-6 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[3-[[(dimethylamino)carbonyl]amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

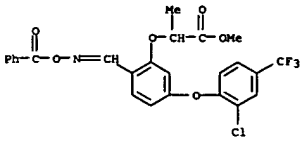


RN 128079-70-9 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-[(ethoxycarbonyl)amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)

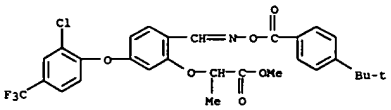
L19 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



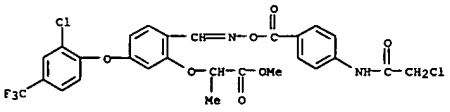
RN 128079-71-0 CAPLUS
CN Propanoic acid, 2-[2-[[(benzoyloxy)imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128079-73-2 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-(1,1-dimethylethyl)benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



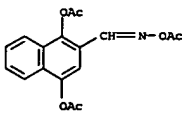
RN 128079-74-3 CAPLUS
CN Propanoic acid, 2-[2-[[[[4-[(chloroacetyl)amino]benzoyl]oxy]imino]methyl]-5-[2-chloro-4-(trifluoromethyl)phenoxy]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



L19 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2003 ACS
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R1, R4 = H, acyl, alkoxycarbonyl, alkylsulfonyl, dialkylcarbamoyl, alkoxyalkyl, alkyl; R2 = cyano, CHO, N-acyloxyiminomethyl, substituted CONH2, acylalkyl, (CH2CH:CMeCH2)nH (n = 2-4), CH2CH:CMe2, acyloxyalkyl, alkoxycarbonylalkyl, (un)substituted alkylsulfonyl, SO3H, substituted OH or NH2, N-substituted CH2NH2, CO2H, R;
R3 = H, alkyl, acyloxyalkyl, etc.], useful for wound healing and for treatment of delayed allergies, are prepd. Thus, treatment of 1,4-naphthalenediol ditetrahydropyranyl ether (prepn. given) with BuLi in Et2O followed by DMF gave, after deprotection, 2-formyl-1,4-dihydroxynaphthalene which was acetylated with Ac2O in pyridine to give 2-formyl-1,4-diacetoxynaphthalene. I inhibited 24.2-96.6% auricle edema in mice sensitized with oxazolone.
ACCESSION NUMBER: 1990:118481 CAPLUS
DOCUMENT NUMBER: 112:118481
TITLE: Preparation of 1,4-dihydroxynaphthalene derivatives for wound healing and for treatment of delayed allergies
INVENTOR(S): Imuda, Junichi; Ishitoku, Takeshi; Isayama, Shigeru; Furuya, Yoshiro; Takahashi, Katsuya; Ori, Aiichiro; Nakamura, Hideo; Motoyoshi, Satoru
PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan; Dainippon Pharmaceutical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

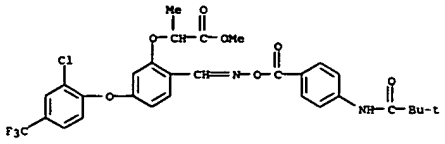
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01203351	A2	19890816	JP 1988-25330	19880205

PRIORITY APPLN. INFO.: JP 1988-25330 19880205
OTHER SOURCE(S): MARPAT 112:118481
IT 125499-32-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as allergy inhibitor and for wound healing)
RN 125499-32-3 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4-bis(acetyloxy)-, 2-(O-acetyloxime) (9CI) (CA INDEX NAME)

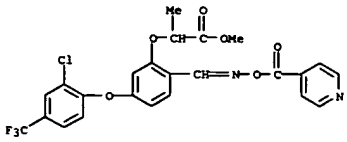


L19 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

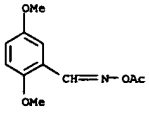
RN 128079-75-4 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-[(2,2-dimethyl-1-oxopropyl)amino]benzoyl]oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 128096-69-5 CAPLUS
CN Propanoic acid, 2-[5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-[[[[4-pyridinylcarbonyl)oxy]imino]methyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



L19 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB A new reagent, Me2NCH2CONMeOH (I), was developed for the selective cleavage of active esters under neutral conditions. Kinetic studies and applications of I are described.
ACCESSION NUMBER: 1989:552945 CAPLUS
DOCUMENT NUMBER: 111:152945
TITLE: N-Methyl-2-(dimethylamino)acetohydroxamic acid as a new reagent for the selective cleavage of active esters under neutral conditions
AUTHOR(S): Ono, Mitsunori; Itoh, Isamu
CORPORATE SOURCE: Ashigara Res. Lab., Fuji Photo Film Co., Ltd., Minami-Ashigara, 250 01, Japan
SOURCE: Tetrahedron Letters (1989), 30(2), 207-10
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:152945
IT 122913-67-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(ester cleavage of, in presence methyl(dimethylamino)acetohydroxamic acid)
RN 122913-67-1 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)



L19 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB The synthesis is described of 2-substituted hydroquinonebis(benzoates) which have large 2-substituents contg. arom. and other ring systems. Contrary to the general accepted opinion these large lateral substituents which cause remarkable deviations from the rodlike shape of the mols. do not prevent the liq.-cryst. properties, the compds. are nematic and smectic. The influence of different chem. groups on the liq.-cryst. properties was investigated systematically. The compds. tend to exhibit the glassy nematic state above room temp. This property may be used for the construction of thermoelectrooptic devices.

ACCESSION NUMBER: 1988:230022 CAPLUS
DOCUMENT NUMBER: 108:230022
TITLE: Thermotropic liquid-crystalline compounds with lateral
long chain substituents. Part IX.
Liquid-crystalline
compounds with lateral aromatic branches
AUTHOR(S): Weissflog, W.; Demus, D.
CORPORATE SOURCE: VEB Laborchem., Leipzig-Lutzschena, DDR-7143, Ger. Dem. Rep.
SOURCE: Liquid Crystals (1988), 3(2), 275-84
CODEN: LICRE6; ISSN: 0267-8292
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 114391-76-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(liq. crystal, prepn. and properties of)
RN 114391-76-3 CAPLUS
CN Benzoic acid, 4-(octyloxy)-, 2-[[[(4-pentylbenzoyl)oxy]imino]methyl]-1,4-phenylene ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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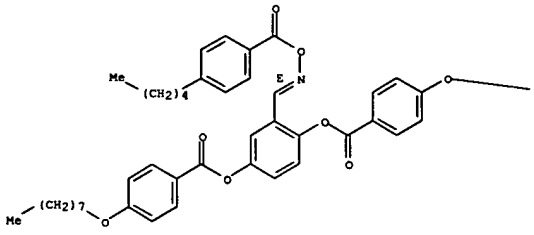
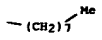
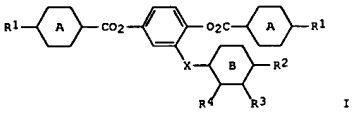


L19 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-B



L19 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2003 ACS
GI



I

AB Liq.-cryst. 2-substituted-1,4-bis(4-substituted benzoyloxy)benzenes of formula I, where R1 = C1-12 alkyl or alkoxy; R2 = R1, (CH2)0-4CN, NO2, O2CC6H4R1, H, or Br; R3,R4 = H, alkyl, alkoxy, NO2, or CN; R2 + R3 = OCH2O; A = 1,4-phenylene or 1,4-cyclohexylene; B = A or pyridine; X = CO, R5C:NOOC, or COY; R5 = CnH2n (n = 0-4); Y = Z1(CH2)nZ2 (n = 0-10); Z1 = O, S, NR5, CHR5, CO, CH:CH, or N:CR5; and Z2 = Z1, OOC, or a single bond, can be used alone or mixed with each other or with other liq.-crystal or non-liq.-crystal materials.

ACCESSION NUMBER: 1988:122081 CAPLUS
DOCUMENT NUMBER: 108:122081
TITLE: Glassy nematic liquid crystals as anisotropic solid optical materials for optical components and thermoelectrooptical storage displays
INVENTOR(S): Demus, Dietrich; Pelzl, Gerhard; Diele, Siegmar; Weissflog, Wolfgang; Wedler, Wolfgang
PATENT ASSIGNEE(S): Martin-Luther-Universitaet Halle-Wittenberg, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 247227	A1	19870701	DD 1986-287593	19860305
DE 3703640	A1	19870910	DE 1987-3703640	19870206
CH 671233	A	19890815	CH 1987-560	19870212
GB 2188048	A1	19870923	GB 1987-4421	19870225
GB 2188048	B2	19900912		
JP 62212349	A2	19870918	JP 1987-48987	19870305

PRIORITY APPLN. INFO.: DD 1986-287593 19860305
IT 113267-59-7
RL: USES (Uses)
(glassy nematic liq. crystal, as anisotropic optical material)
RN 113267-59-7 CAPLUS
CN Benzoic acid, 4-(octyloxy)-, 2-[[[(4-pentylbenzoyl)oxy]imino]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)

L19 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

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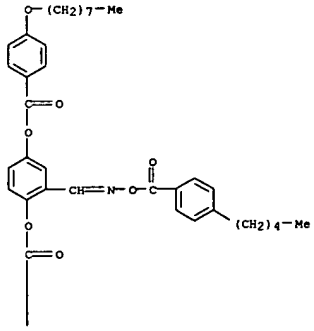

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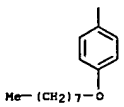


L19 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB In the title process, the heating of imaging materials is carried out in the presence of the compd. of the formula R1CX:CR2CO2N:CHR3 (R1, R2 = H, alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heterocyclyl, carboxyl or its salt, halo, CN, alkylsulfonyl, arylsulfonyl, sulfamoyl, carbamoyl, alkoxycarbonyl, aryloxycarbonyl, alkylphosphoryl, arylphosphoryl, alkylphosphinyl, arylphosphinyl, alkylsulfinyl, arylsulfinyl, acyl, amino, acylamino, acyloxy, photog. useful group, R3 = aryl, heterocyclyl; X = photog. useful group; R1R2 combination may form a ring). The above compds. release development inhibitors with excellent timing.

ACCESSION NUMBER: 1987:415617 CAPLUS
DOCUMENT NUMBER: 107:15617
TITLE: Imaging process involving heating step
INVENTOR(S): Sato, Kozo; Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

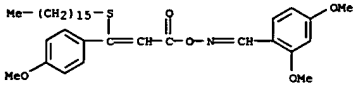
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61267045	A2	19861126	JP 1985-106872	19850521
JP 05033780	B4	19930520		

PRIORITY APPLN. INFO.: JP 1985-106872 19850521

IT **108859-53-6**
RL: USES (Uses)
(photothermog. development inhibitor-releasing compds.)

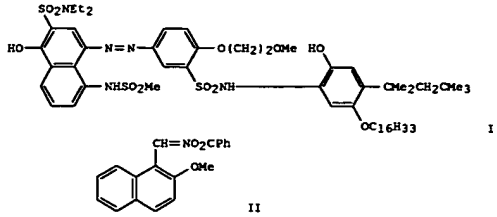
RN 108859-53-6 CAPLUS

CN Benzaldehyde, 2,4-dimethoxy-, O-[3-(hexadecylthio)-3-(4-methoxyphenyl)-1-oxo-2-propenyl]oxime (9CI) (CA INDEX NAME)



L19 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2003 ACS

GI



I

II

AB Heat-developable photosensitive materials giving an image with a high signal-to-noise ratio, that is a high Dmax and a low Dmin, and a high d. are composed of a photosensitive gelatin-Ag halide emulsion layer, a dye-forming substance that upon redn. at a high temp. produces a diffusible dye, and an org. acid precursor with the structural unit -CH:NO2C- that is very stable at .ltorsim.50.degree., but frees an acid at temps. proceeding to development to neutralize the base and stop the development. Thus, a PET support was coated with a compn. contg. a gelatin-Ag(Br,I) emulsion 20, a gelatin-Ag benzotriazole emulsion 10, a dispersion of I 33 g, a 5% aq. soln. of p-C9H19C6H4O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4, a gelatin dispersion of II 10 mL, and a soln. of guanidine trichloroacetate 1.6 mL in EtOH 16 mL at 33.mu. (wet). After drying a gelatin protective layer was added. The resultant material was then imagewise exposed 10 s at 2000 lx with a W lamp, heated for 60 s on a 140.degree. heating block, contacted with a wet receptor sheet, and heated 6 s at 80.degree. to give a Dmax of 2.10 and a Dmin of 0.20 vs. 2.35 and 0.85, resp., for a II-free control.

ACCESSION NUMBER: 1986:139353 CAPLUS
DOCUMENT NUMBER: 104:139353
TITLE: Heat-developing light-sensitive color material
INVENTOR(S): Kato, Masatoshi; Kitaguchi, Hiroshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 90 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3508761	A1	19850919	DE 1985-3508761	19850312

L19 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

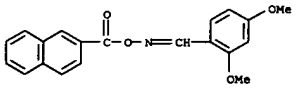
JP 60192939	A2	19851001	JP 1984-48305	19840314
JP 04069775	B4	19921109		
US 4656126	A	19870407	US 1985-711885	19850314

PRIORITY APPLN. INFO.: JP 1984-48305 19840314

IT **100906-54-5**
RL: USES (Uses)
(color diffusion-transfer photothermog. materials contg. base-neutralizing acid precursor from, for improved image quality)

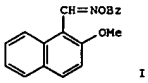
RN 100906-54-5 CAPLUS

CN Benzaldehyde, 2,4-dimethoxy-, O-(2-naphthalenylcarbonyl)oxime (9CI) (CA INDEX NAME)



L19 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS

GI



I

AB Org. acid precursors (R1CH:NO2C)nX [R1 = (un)substituted alkyl, cycloalkyl, aralkyl, alkenyl, (un)substituted aryl, heterocyclyl; X = (un)substituted alkyl, cycloalkyl, aralkyl, (un)substituted aryl, heterocycyl, or a mono-, di-, or trivalent group formed by combination of the above; n = 1-3], useful as agents to end development in a thermal photog. development process, were prepd. Thus, 103.2 g 2-hydroxy-1-naphthaldehyde in DMF was etherified with 4-MeC6H4SO3Me and K2CO3 at 50-60.degree. for 2 h to give 93.8 g 2-methoxy-1-naphthaldehyde, which (80 g) underwent oximation to give 85 g oxime. The oxime (70.3 g) was treated with 60% NaH in MeCN, and the resulting soln. treated with BzCl at 10.degree. to give 88 g acid precursor I. The reaction rate const. for cleavage of I to BzOH was 2.01/h at 100.degree., with T1/2 = 0.34 h.

ACCESSION NUMBER: 1986:50692 CAPLUS
DOCUMENT NUMBER: 104:50692
TITLE: Photographic material containing an acid precursor and a procedure for producing a photographic image
INVENTOR(S): Kitaguchi, Hiroshi; Kato, Masatoshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

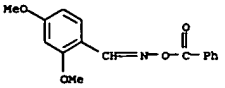
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3442018	A1	19850530	DE 1984-3442018	19841116
JP 60108837	A2	19850614	JP 1983-216928	19831117
US 4670373	A	19870602	US 1984-672643	19841119

PRIORITY APPLN. INFO.: JP 1983-216928 19831117

IT **99806-97-0**
RL: PRP (Properties)
(decompn. kinetics of)

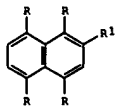
RN 99806-97-0 CAPLUS

CN Benzaldehyde, 2,4-dimethoxy-, O-benzoyloxime (9CI) (CA INDEX NAME)



L19 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

L19 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2003 ACS
GI



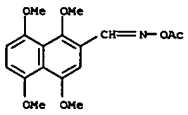
I

AB Alkoxynaphthalenes and their salts I [R = alkoxy; R1 = HOCH2, halomethyl, R2ON:CH (where R2 = H, alkyl), (CR3H)nR4 (where R3 = H, alkyl and R4 = CO2H, alkoxycarbonyl, cyano; n = 0, 1)], having inflammation inhibiting, antihypertensive, analgesic, antiallergic, and antihistaminic activities (no data), were prepd. Thus, aq. NaOH was added dropwise to a suspension of 1.8 g I (R = OMe; R1 = CHO) and 2.2 g Ag2O in CH2Cl2 and the resulting mixt. heated 24 h at 60.degree. to give 1 g I (R = OMe; R1 = CO2H).

ACCESSION NUMBER: 1985:471078 CAPLUS
DOCUMENT NUMBER: 103:71078
TITLE: Alkoxynaphthalene derivatives
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60036434	A2	19850225	JP 1983-145447	19830808
JP 03026177	B4	19910410		

PRIORITY APPLN. INFO.: JP 1983-145447 19830808
OTHER SOURCE(S): CASREACT 103:71078
IT 97476-16-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 97476-16-9 CAPLUS
CN 2-Naphthalenecarboxaldehyde, 1,4,5,8-tetramethoxy-, O-acetyloxime (9CI) (CA INDEX NAME)

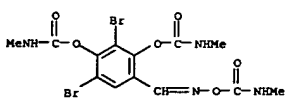


L19 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB The oxime ethers Ar (SOn)mCX(:NOBA) (Ar = Ph, naphthyl, or heterocyclic radical; A = H, C1-4 alkoxy, C2-4 alkenyloxy, C1-4 alkylthio, etc.; B = C1-4 alkylene or alkenylene, or direct bond; X = H, halo, alkylcarbamoyl, etc.; m = 0 or 1; n = 0, 1, or 2) are antidotes for known sulfonylurea herbicides. Thus, seed treatment with 2-FC6H4C(CN)(:NOCH2CN) [97627-47-9] (1 g/kg) protected corn by 50% against phytotoxicity from postemergence application of N-(2-methylbenzoylsulfonyl)-N'-(4-difluoromethoxy-6-methyl)pyrimidin-2-ylurea (62 g/ha), in pot expts.

ACCESSION NUMBER: 1985:466781 CAPLUS
DOCUMENT NUMBER: 103:66781
TITLE: Selectively active herbicides containing sulfonyl urea
as the active herbicidal agent as well as an antagonistically active oxime ether and their use for controlling weeds in food plant cropa
INVENTOR(S): Gerber, Hans Rudolf; Bellucci, Sergio
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 144283	A1	19850612	EP 1984-810470	19840928
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 60094902	A2	19850528	JP 1984-209016	19841004

PRIORITY APPLN. INFO.: CH 1983-5389 19831004
IT 75409-11-9
RL: BIOL (Biological study)
(as antidote, for sulfonylurea herbicides)
RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



L19 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2003 ACS
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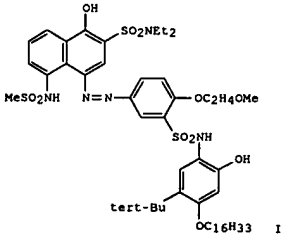

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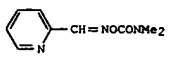


II

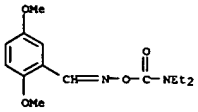
AB A photog. material which forms low-fog storage-stable dye images by heating consists of .gtoreq.1 Ag halide emulsion, a binder, a dye-releasing redox compd., and a base precursor RCH:NOCONR1R2 (R = alkyl, cycloalkyl, alkenyl, aryl, aralkyl, acyl, heterocyclyl; R1, R2 = H, alkyl, cycloalkyl, aralkyl, or RR1 together can form a ring, or NRR1 may form an imino group by a double bond. Thus, a poly(ethylene terephthalate) support was coated with a compn. contg. a Ag(Br,I) emulsion 25, a dye-releasing redox compd. dispersion (contg. I 5, Na bis(2-ethylhexyl) sulfosuccinate 0.5, tricresyl phosphate 5, 10% aq. gelatin 100 g, EtOAc 30 mL) 33 g, a 5% aq. soln. of C9H19C6H4-p-O(CH2CH2O)10H 10, a 10% aq. soln. of H2NSO2NMe2 4 mL, and a soln. contg. the base precursor II 2.5 g in EtOH 20 mL, to a wet thickness of 30 .mu.m, dried, imagewise exposed to 2000 lx for 10 s using W lamp, heated 10 s to 140.degree., contacted with a H2O-wetted image receiver (consisting of a polyester support contg. dispersed TiO2 and a gelatin layer of Me acrylate-N,N,N-trimethyl-N-vinylbenzylammonium chloride copolymer), and heated 6 s at 80.degree.. After sepn. of the elements a neg. magenta image was obtained on the receiver which had a Dmax and Dmin of 2.05 and 0.2, resp., vs. 0.03 and 0.03, resp., for a II-free control.

ACCESSION NUMBER: 1985:70099 CAPLUS
DOCUMENT NUMBER: 102:70099
TITLE: Heat-developable color photographic materials
INVENTOR(S): Hirai, Hiroyuki; Kawata, Ken
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW

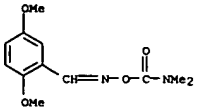
L19 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 118078	A2	19840912	EP 1984-101801	19840221
EP 118078	A3	19841128		
EP 118078	B1	19880107		
R: DE, FR, GB, NL				
JP 59157637	A2	19840907	JP 1983-31614	19830225
JP 02045180	B4	19901008		
US 4499180	A	19850212	US 1984-583913	19840227

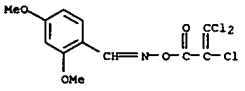
PRIORITY APPLN. INFO.: JP 1983-31614 19830225
IT **93369-33-6P 93369-34-7P**
RL: PREP (Preparation)
(prepn. of, for heat-developable color photog. materials)
RN 93369-33-6 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(diethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



RN 93369-34-7 CAPLUS
CN Benzaldehyde, 2,5-dimethoxy-, O-[(dimethylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



L19 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2003 ACS
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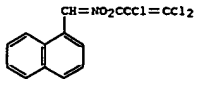

II III

AB C12C:CClCO2N:CRR1 (I) (R,R1 = H, lower alkyl, benzyl, cycloalkyl, naphthyl, aryl, etc.) were prepd. and shown, in some cases, to be more effective fungicides than kilazin P. Thus, 100 mL PhMe soln. contg. 40 g C12C:CClCOCl were added at .ltoreq.20.degree. to 30 g PhCH:NOH and 26 g Et3N in 400 mL PhMe, and the mixt. was heated 2 h at 50.degree. to give 58
g I (R = Ph, R1 = H). Among 39 other I prepd. were I [R,R1 = Me,Me; Me,Et; (RR1=) cyclohexylidene], the naphthyl analog II, and the dicyclopropyl analog III.
ACCESSION NUMBER: 1984:610740 CAPLUS
DOCUMENT NUMBER: 101:210740
TITLE: Trichloroacryloyl oxime derivatives
INVENTOR(S): Yamada, Yasuo; Saito, Junichi; Gotoh, Toshio; Katsumata, Osamu; Sakawa, Shinji
PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K. , Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 112524	A1	19840704	EP 1983-112276	19831207
EP 112524	B1	19860528		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 59110665	A2	19840626	JP 1982-220165	19821217
US 4581365	A	19860408	US 1983-557688	19831202
IL 70443	A1	19870130	IL 1983-70443	19831214
BR 8306913	A	19840724	BR 1983-6913	19831215
ZA 8309329	A	19840829	ZA 1983-9329	19831215
DK 8305810	A	19840618	DK 1983-5810	19831216
AU 8322504	A1	19840621	AU 1983-22504	19831219

PRIORITY APPLN. INFO.: JP 1982-220165 19821217
OTHER SOURCE(S): CASREACT 101:210740
IT **93033-55-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as fungicide)
RN 93033-55-7 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, O-(2,3,3-trichloro-1-oxo-2-propenyl)oxime (9CI) (CA INDEX NAME)

L19 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2003 ACS
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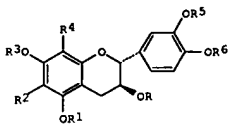


I

AB Cyanidanols I [R = H, (un)substituted hydrocarbon, acyl, carbamoyl; R1, R3, R5, R6 = H, (un)substituted hydrocarbon; R5R6 = CH2; R2, R4 = H, (un)substituted hydrocarbon, heterocyclic, halogen, CHO, (un)substituted CO2H, OH, SH, sulfamoyl, acyl, amino] were prepd. Thus I (R = R1 = R3 = R5 = R6 = CH2Ph, R2 = R4 = H) was converted to its 8-formyl deriv. which was subjected to Grignard reaction with EtBr to give I (R = R1 = R3 = R5 =
R6 = CH2Ph, R2 = H, R4 = CHEtOH). Hydrogenation of the latter compd. on Pd-C gave I (R = CH2Ph, R1-R3 = R5 = R6 = H, R4 = Pr) which had an ED50 against acute galactosamine hepatitis of 118.5 .mu.moles/kg orally in rats
and 25 mg/kg i.p. in rats gave 56.1% inhibition of D-galactosamine edema.
ACCESSION NUMBER: 1984:209512 CAPLUS
DOCUMENT NUMBER: 100:209512
TITLE: Pharmaceutical preparation containing (+)-cyanidan-3-ol derivatives, and use thereof
INVENTOR(S): Ballenegger, Marc Ernest; Rimbault, Christian Gerard; Albert, Alban Imre; Weith, Andre Jean; Courbat, Pierre; Tyson, Robert Graham; Palmer, Derek Reginald; Thompson, David George
PATENT ASSIGNEE(S): Zyma S. A., Switz.
SOURCE: Eur. Pat. Appl., 140 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 96007	A2	19831207	EP 1983-810222	19830526
EP 96007	A3	19840104		
EP 96007	B1	19870729		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
GB 2122608	A1	19840118	GB 1983-12765	19830510
GB 2122608	B2	19851002		
AT 28641	E	19870815	AT 1983-810222	19830526
FI 8301926	A	19831202	FI 1983-1926	19830530
ZA 8303908	A	19840125	ZA 1983-3908	19830530
ES 522814	A1	19850916	ES 1983-522814	19830530
CA 1234103	A1	19880315	CA 1983-429160	19830530
DK 8302452	A	19831202	DK 1983-2452	19830531
NO 8301950	A	19831202	NO 1983-1950	19830531
AU 8315255	A1	19831208	AU 1983-15255	19830531
AU 568301	B2	19871224		

L19 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

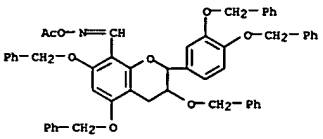
JP 58219177	A2	19831220	JP 1983-96840	19830531
HU 31165	O	19840428	HU 1983-1943	19830531
DD 210687	A5	19840620	DD 1983-251542	19830531
IL 68832	A1	19880630	IL 1983-68832	19830531
ES 536423	A1	19870416	ES 1984-536423	19841001
US 4644011	A	19870217	US 1985-754181	19850709
PRIORITY APPLN. INFO.:			GB 1982-15867	19820601
			EP 1983-810222	19830526
			US 1983-499647	19830531

OTHER SOURCE(S): CASREACT 100:209512

IT **89385-95-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and dehydration of)

RN 89385-95-5 CAPLUS

CN 2H-1-Benzopyran-8-carboxaldehyde, 2-[3,4-bis(phenylmethoxy)phenyl]-3,4-dihydro-3,5,7-tris(phenylmethoxy)-, O-acetyloxime, (2R-trans)- (9CI) (CA INDEX NAME)



L19 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS

GI For diagram(s), see printed CA Issue.

AB Approx. 300 oximes R1CR2:NOR3 (R1 = substituted Ph or heterocyclic radical; R2 = H, CH, halogen, alkyl, etc.; R3 = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) were prepd. and tested as herbicidal antidotes. Thus, seed treatment with 10 ppm (I) [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts.

ACCESSION NUMBER: 1982:540287 CAPLUS
Correction of: 1981:78439

DOCUMENT NUMBER: 97:140287
Correction of: 94:78439

TITLE: Oxime derivatives and their use in the protection of cultivated plants

INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 12158	A2	19800625	EP 1979-103212	19790830
EP 12158	A3	19800723		
EP 12158	B1	19840815		
R: AT, BE, CH, DE, FR, GB, IT, NL				
US 4347372	A	19820831	US 1979-70288	19790828
CS 210698	P	19820129	CS 1979-5915	19790830
CA 1164869	A1	19840403	CA 1979-334777	19790830
IL 58152	A1	19840531	IL 1979-58152	19790830
AT 8957	E	19840915	AT 1979-103212	19790830
AU 7950474	A1	19800320	AU 1979-50474	19790831
AU 541126	B2	19841220		
DD 146143	C	19810128	DD 1979-215309	19790831
JP 63017067	B4	19880412	JP 1979-112354	19790901
ZA 7904650	A	19800924	ZA 1979-4650	19790904
US 4388464	A	19830614	US 1981-232752	19810209
US 4715883	A	19871229	US 1982-423354	19820924

PRIORITY APPLN. INFO.:

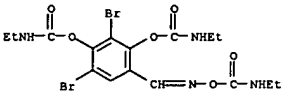
CH 1978-9255	19780901
US 1979-70288	19790828
EP 1979-103212	19790830
US 1981-232752	19810209

IT **75409-00-6P 75409-01-7P 75409-02-8P**
75409-03-9P 75409-04-0P 75409-05-1P
75409-06-2P 75409-07-3P 75409-08-4P
75409-09-5P 75409-10-8P 75409-11-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)

RN 75409-00-6 CAPLUS

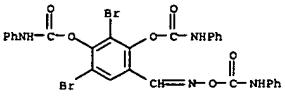
CN Carbamic acid, ethyl-, 2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

L19 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)



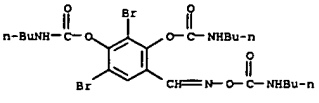
RN 75409-01-7 CAPLUS

CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(phenylamino)carbonyl]oxy]-, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-02-8 CAPLUS

CN Carbamic acid, butyl-, 2,4-dibromo-6-[[[[(butylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

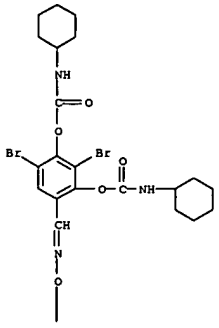


RN 75409-03-9 CAPLUS

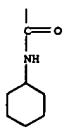
CN Carbamic acid, cyclohexyl-, 2,4-dibromo-6-[[[[(cyclohexylamino)carbonyl]oxy]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

L19 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

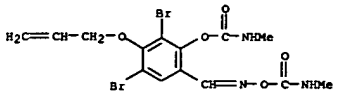


PAGE 2-A



RN 75409-04-0 CAPLUS

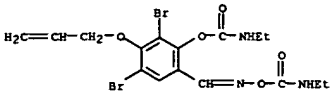
CN Benzaldehyde, 3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propenyloxy)-, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



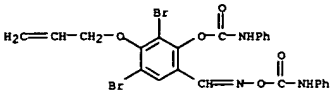
RN 75409-05-1 CAPLUS

CN Carbamic acid, ethyl-, 2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me

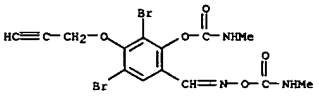
L19 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)
thyl]-3-(2-propenyloxy)phenyl ester (9CI) (CA INDEX NAME)



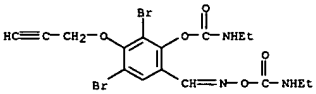
RN 75409-06-2 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-07-3 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

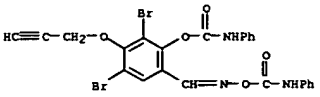


RN 75409-08-4 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propynyloxy)phenyl ester (9CI) (CA INDEX NAME)

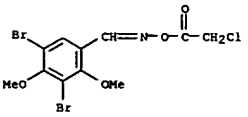


RN 75409-09-5 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propynyloxy)-

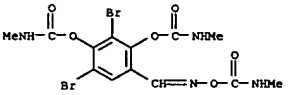
L19 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



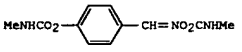
RN 75409-10-8 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-dimethoxy-, O-(chloroacetyl)oxime (9CI)
(CA
INDEX NAME)



RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-,
1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



L19 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2003 ACS
GI



I

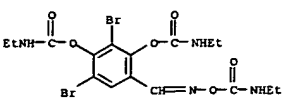
AB The oximes ArCX:NOQ (Ar = substituted Ph or heterocyclic radical; X = H, CH, halo, alkyl, etc.; Q = H, alkyl, haloalkyl, alkenyl, alkylsulfonyl, etc.) are herbicidal antidotes. Thus, seed treatment with 10 ppm I [34646-95-2] protected rice against the phytotoxic effect of Metolachlor [51218-45-2], in pot expts. The synthesis of the compds. is given.

ACCESSION NUMBER: 1981:78439 CAPLUS
DOCUMENT NUMBER: 94:78439
TITLE: Oxime derivatives and their use in the protection of cultivated plants
INVENTOR(S): Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gatzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes Paul; et al.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 12158		19800625		
PRIORITY APPLN. INFO.:			CH 1978-9255	19780901

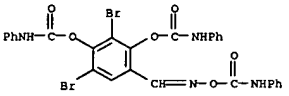
IT **75409-00-6P 75409-01-7P 75409-02-8P**
75409-03-9P 75409-04-0P 75409-05-1P
75409-06-2P 75409-07-3P 75409-08-4P
75409-09-5P 75409-10-8P 75409-11-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and herbicide-antidote activity of)

RN 75409-00-6 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

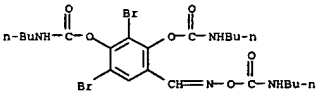


RN 75409-01-7 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(phenylamino)carbonyl]oxy]-,
1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

L19 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

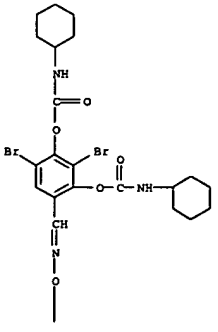


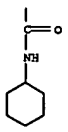
RN 75409-02-8 CAPLUS
CN Carbamic acid, butyl-,
2,4-dibromo-6-[[[[(butylamino)carbonyl]oxy]imino]me
thyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)



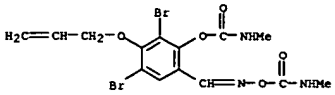
RN 75409-03-9 CAPLUS
CN Carbamic acid, cyclohexyl-,
2,4-dibromo-6-[[[[(cyclohexylamino)carbonyl]ox
y]imino]methyl]-1,3-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

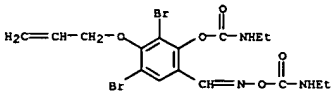




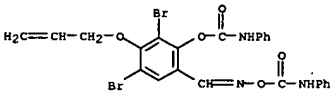
RN 75409-04-0 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-05-1 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propenyloxy)phenyl ester (9CI) (CA INDEX NAME)

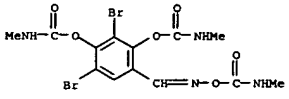


RN 75409-06-2 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propenyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)

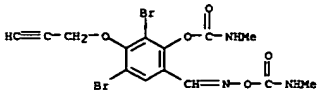


RN 75409-07-3 CAPLUS

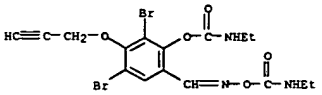
RN 75409-11-9 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-bis[[(methylamino)carbonyl]oxy]-,
1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



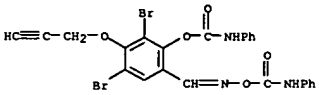
CN Benzaldehyde,
3,5-dibromo-2-[[(methylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(methylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



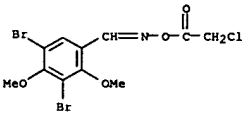
RN 75409-08-4 CAPLUS
CN Carbamic acid, ethyl-,
2,4-dibromo-6-[[[[(ethylamino)carbonyl]oxy]imino]me
thyl]-3-(2-propynyloxy)phenyl ester (9CI) (CA INDEX NAME)



RN 75409-09-5 CAPLUS
CN Benzaldehyde,
3,5-dibromo-2-[[(phenylamino)carbonyl]oxy]-4-(2-propynyloxy)-
, 1-[O-[(phenylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 75409-10-8 CAPLUS
CN Benzaldehyde, 3,5-dibromo-2,4-dimethoxy-, O-(chloroacetyl)oxime (9CI)
(CA
INDEX NAME)



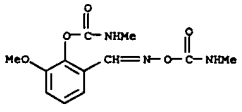
GI For diagram(s), see printed CA Issue.
AB Title compds. (I), used esp. against Rhopalosiphum padi, Phaedon cochleariae, and Euscelis bilobatus, were prepd. in 53.2-93.3% yield by reaction of MeNCO with the corresponding hydroxy-benzaldoximes. Thus, 2-hydroxybenzaldoxime in Et2O and MeNCO reacted 30 min at 10.degree. in the presence of Et3N to give 67.8% I (R=H, O2CNHMe in position 2). Similarly prepd. were 6 other I (R and position of O2CNHMe given): 5-Cl, 2; 3,5-Cl2, 2; 3-OMe, 2; H, 3; H, 4; and OMe, 4.

ACCESSION NUMBER: 1972:33961 CAPLUS
DOCUMENT NUMBER: 76:33961
TITLE: Insecticidal and acaricidal hydroxybenzaldoxime bis(methylcarbamates)
INVENTOR(S): Lorenz, Walter; Hammann, Ingeborg
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2011182	A	19710923	DE 1970-2011182	19700310

PRIORITY APPLN. INFO.: DE 1970-2011182 19700310

IT **34646-93-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 34646-93-0 CAPLUS
CN Benzaldehyde, 3-methoxy-2-[[(methylamino)carbonyl]oxy]-,
O-[(methylamino)carbonyl]oxime (9CI) (CA INDEX NAME)



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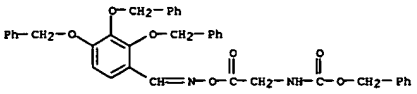
AB 2,3,4-(HO)3C6H2CH2NHO2CCH2NH2.2HBr (I) is prepd. from carbobenzoxyglycine and tritylhydroxylamine in 5 steps. In contrast to the corresponding isosteric 2,3,4-(HO)3C6H2CH2NHNHCOCH2NH2, I is not a decarboxylase inhibitor.

ACCESSION NUMBER: 1970:456389 CAPLUS
DOCUMENT NUMBER: 73:56389
TITLE: Synthesis of O-glycyl-N(2,3,4-trihydroxybenzyl)hydroxylamine dihydrobromide
AUTHOR(S): Hegedus, Balthasar; Krasso, A. F.
CORPORATE SOURCE: Chem. Forschungsabt., F. Hoffmann-La Roche und Co. A.-G., Basel, Switz.
SOURCE: Helvetica Chimica Acta (1970), 53(5), 959-63
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German

IT **27916-68-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 27916-68-3 CAPLUS

CN Benzaldehyde, 2,3,4-tris(benzyloxy)-, O-(N-carboxyglycyl)oxime benzyl ester (8CI) (CA INDEX NAME)



L19 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB The title compds. useful as insecticides, animal systemic parasiticides, herbicides, and foliage fungicides have the formula I. The intermediate 3-(diethoxyphosphinothioyl) benzaldehyde (II), n30D 1.5239 was prepd. in 99.5% yield by refluxing 24.4 g. 3-hydroxybenzaldehyde, 37.8 g. O,O-diethylphos-phorochloridothioate, and 16.4 g. K2CO3 in 200 ml. Me Et ketone 4 hrs., the mixt. poured into 300 ml. H2O and twice extd. with CHCl3, 7.5 g. Na2CO3.H2O added to a mixt. of 27.4 g. II and 7.6 g. hydroxylamine hydrochloride in 300 ml. H2O at room temp. in 20 min., and the mixt. stirred one hr. and extd. with C6H6 to give 68.3% 3-(diethoxyphosphinothioyl)benzaldoxime (III), n30D 1.5460. III (10 g.) in 10 ml. acetone was treated with excess MeNCO and poured into 200 ml. C6H6 to give 93.3% 3-(dieth-oxyphosphinothioyl) benzaldoxime methylcarbamate, n30D 1.5394. Similarly prepd. in 96.9% yield was 4'-(diethoxyphosphino-thioyl)acetophenone oxime methylcarbamate. A mixt. of 56.2 g. 4'-(diethoxyphosphinothioyl)acetophenone, 17.4 g. hydroxylamine hydrochloride, and 4 g. NaOH in 150 ml. 80% EtOH was refluxed 5 min., cooled, and acidified with concd. HCl to give 93.5% 4'-(diethoxyphosphinothioyl)acetophenone oxime (IV), n30D 1.5393. A mixt. of 10.0 g. IV, 3.2 g. AcCl, 4.1 g. Et3N, and 150 ml. C6H6 was refluxed one hr. to give 96.5% 4'-(diethoxy-phosphinothioyl)acetophenone oxime acetate, n30D 1.5279. A soln. of 14.5 g. 4-(diethoxyphosphinothioyl)benzaldoxime. (V) in 50 ml. Et2O was added in 30 min. at 10.degree. to 7 g. phosgene in 150 ml. Et2O, the mixt. stirred one hr. at 15.degree., a soln. of 17.4 g. morpholine in 10 ml. H2O added at <15.degree., and the mixt. stirred two hrs. at room temp. and worked up to give 89.8% 4-(diethoxy-phosphinothioyl)benzaldoxime 4-morpholinecarboxylate, n30D 1.5423. Similarly 14.5 g. V, 7 g. phosgene, and 8.6 g. N,N-dimethylaniline treated with 6.1 g. ethanolamine and 10 ml. H2O at <15.degree. gave 94.8% 4-(diethoxyphosphinothioyl)benzaldoxime (.beta.-hydroxyethyl)carbamate (VI), n30D 1.5423. A soln. of 11.6 g. N,N-diethylethylenediamine in 10 ml. H2O was added dropwise at <15.degree. to VI in Et2O soln. to give 51.8% 4-(diethoxyphos-phinothioyl)benzaldoxime 2-(diethylamino)ethyl carbamate, n30D 1.5310. These procedures were followed to obtain the tabulated I (X = S, p = position of phenyl substitution by R2C:NOR3 relative to P-contg. group). The following VII were likewise prepd. (R, R1, and n30D given): H, CONHMe, 1.5280; H, CONHBu, 1.5130; Me, CONHMe, 1.5243; Me, CONHPr-iso, 1.5109. The compds. prepd. were tested as pre- and postemergent herbicides, as foliage fungicides, as insecticides, and for internal animal systematic activity.

ACCESSION NUMBER: 1969:430236 CAPLUS
DOCUMENT NUMBER: 71:30236
TITLE: (O-Carbamoyl oxime), phosphate, phosphonate, and phosphinate compositions and their utility as herbicides and pesticides
INVENTOR(S): Gutman, Arnold D.
PATENT ASSIGNEE(S): Stauffer Chemical Co.
SOURCE: S. African, 80 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6803662		19681108		

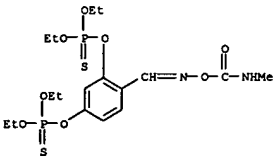
L19 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

PRIORITY APPLN. INFO.: US 19670616
US 19680520

IT **22942-28-5P 22942-30-9P 22942-31-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

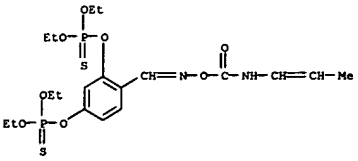
RN 22942-28-5 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-(methylcarbamoyl)oxime (8CI) (CA INDEX NAME)



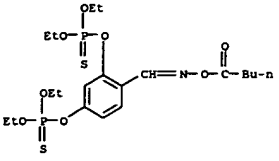
RN 22942-30-9 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-(propenylcarbamoyl)oxime (8CI) (CA INDEX NAME)



RN 22942-31-0 CAPLUS

CN Phosphorothioic acid, O,O-diethyl ester, O,O-diester with .beta.-resorcylaldehyde O-valeryloxime (8CI) (CA INDEX NAME)



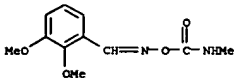
L19 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2003 ACS (Continued)

L19 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2003 ACS

AB Carbaryl was applied topically, singly, and in combination with several series of adjuvants to the housefly to det. the role of the dioxole ring of methylenedioxyphenyl compds. in synergizing the carbamate insecticides.

When the methylenedioxy moiety was replaced with methoxyl or methoxyl and hydroxyl groups, synergistic activity was greatly reduced or lost. Several 1,3-benzodioxans also failed to act as synergists. The integrity of the 1,2-methylenedioxy structure is essential for max. potentiation of housefly toxicity of the carbamates, paralleling the case for pyrethrins synergism.

ACCESSION NUMBER: 1965:25221 CAPLUS
DOCUMENT NUMBER: 62:25221
ORIGINAL REFERENCE NO.: 62:4549f-g
TITLE: Influence of the methylenedioxyphenyl structure in synergism of a carbamate insecticide for house flies
AUTHOR(S): Moorefield, Herbert H.; Weiden, Mathias H. J.
CORPORATE SOURCE: Union Carbide Agr. Res. Sta., Clayton, NC
SOURCE: Contrib. Boyce Thompson Inst. (1964), 22(8), 425-33
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 2815-70-5, o-Veratraldehyde, O-(methylcarbamoyl)oxime
(as synergist for carbaryl, in housefly control)
RN 2815-70-5 CAPLUS
CN o-Veratraldehyde, O-(methylcarbamoyl)oxime (7CI, 8CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	141.14	1444.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-18.88	-96.35

STN INTERNATIONAL LOGOFF AT 20:16:50 ON 22 MAR 2003